

CHAPTER XII.

PREVAILING HOURS OF LABOR.

Introduction.—No attempt was made at the census of 1909 to ascertain exactly the number of employees in manufacturing industries working a given number of hours per week. The schedule, however, contained an inquiry calling for the number of hours normally worked by wage earners, the instructions being to enter under this heading the prevailing practice followed during the year in each establishment. Occasional variations in hours in an establishment from one period to another were necessarily disregarded. Moreover, no attention was or could be given to the fact that a limited number of employees might have hours differing from those of the majority.

In the tables the average number of wage earners employed during the year in each establishment is classified as a total according to the hours prevailing in that establishment, even though some employees worked a greater or a smaller number of hours. In most establishments, however, all or practically all the employees work the same number of hours, so that the figure for a given group does show substantially the number customarily working the specified number of hours per week.

All industries combined in the United States as a whole.—The data as to prevailing hours of labor in 1909 for the United States as a whole are summarized in the following table. Statistics of this character are not available for prior censuses.

Table I

PREVAILING HOURS OF LABOR PER WEEK.

	WAGE EARNERS IN ESTABLISHMENTS WITH SPECIFIED NUMBER OF HOURS.	
	Average number	Per cent of total
Total.....	6,615,046	100.0
48 and under.....	523,652	7.9
Between 48 and 54.....	481,157	7.3
54.....	1,019,438	15.4
Between 54 and 60.....	1,899,307	30.2
60.....	2,017,280	30.5
Between 60 and 72.....	344,011	5.2
72.....	116,033	1.8
Over 72.....	114,118	1.7

It is evident that, for the great majority of wage earners employed in the manufacturing industries of the country, the prevailing hours of labor range from 54 to 60 a week. In 1909 only 15.2 per cent of the total number were employed in establishments where the prevailing hours per week were less than 54, and only 8.7 per cent in establishments where more than 60 hours a week prevailed.

Detailed tables for individual industries.—Table 8 (pp. 316 to 319) shows, for 1909, for the 259 industries for which separate statistics can be presented, the average number of wage earners in the United States, classified according to the prevailing hours of labor in the establishments where they were employed, with corresponding percentages. From this table it appears that in 112 of these 259 industries the number of wage earners employed in establishments where the prevailing hours were more than 54 but less than 60 per week exceeded the number in any other class of establishments. While the expression is not absolutely precise, it may be said that in these 112 industries the most common working time was between 54 and 60 hours per week. In 84 industries the most common working time was 60 hours; in 23, it was 54 hours; in 12, it was 48 hours or less; in 12, it was more than 48 but less than 54; in 8, it was more than 72; in 5, it was more than 60 but less than 72; and in 3, it was 72 hours.

In 106 of the industries listed there were no establishments in which the prevailing hours of labor exceeded 60 per week; on the other hand, in 22 industries there were no establishments where the prevailing hours were as low as 48 per week.

Of the 12 industries in which more wage earners were employed in establishments where the prevailing hours were 48 hours or less per week than in those of any other group, the majority are relatively unimportant and give employment to comparatively few wage earners.¹ Some of these industries, such as wood engraving, stereotyping and electrotyping, photo-engraving, lapidary work, and the manufacture of statuary and art goods, require highly skilled labor and concentrated attention on the part of the operative. Printing and publishing, marble and stone work, the brewery industry ("liquors, malt"), and photo-engraving are the only industries among these 12 in which an average of more than 5,000 wage earners were employed during 1909. In nearly all the large breweries throughout the country the prevailing hours are 48 per week, the general practice being to employ three eight-hour shifts per day.

Special statistics for the industries in which considerable numbers of wage earners are employed for 72 or more hours per week are presented later (see p. 311).

¹ These 12 industries were as follows: Calcium lights; engraving, wood; lapidary work; liquors, malt; marble and stone work; moving pictures; paper patterns; photo-engraving; printing and publishing; statuary and art goods; stereotyping and electrotyping; and wood carpet.

PREVAILING HOURS OF LABOR.

307

Prevailing hours of labor in 86 principal industries.—Table 2 shows, for the 86 industries employing over 10,000 wage earners in 1909, the percentage of the total number of wage earners employed in establishments where the prevailing hours were under 54, from 54 to 60, and over 60 per week, respectively. More

detailed statistics with respect to the prevailing hours of labor for these industries, as for others, are shown in Table 8, already mentioned. The industries covered by this table gave employment in 1909 to more than nine-tenths of the total number of wage earners in all industries combined.

Table 2

INDUSTRY.	PER CENT OF WAGE EARNERS EMPLOYED IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—			INDUSTRY.	PER CENT OF WAGE EARNERS EMPLOYED IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—		
	Under 54.	54 to 60 (Inclusive).	Over 60.		Under 54.	54 to 60 (Inclusive).	Over 60.
All industries.....	15.2	76.1	8.7	Gas, illuminating and heating.....	1.4	25.7	72.9
Agricultural implements.....	4.9	94.9	0.3	Glass.....	40.6	48.4	11.0
Artificial flowers and feathers and plumes.....	74.2	25.7	.....	Gloves and mittens, leather.....	13.9	86.1	.....
Automobiles, including bodies and parts.....	3.4	94.6	2.0	Hats, fur-felt.....	41.6	59.4	.....
Boots and shoes, including cut stock and findings.....	3.7	96.2	0.1	Hosiery and knit goods.....	3.3	92.9	3.8
Boots and shoes, rubber.....	100.0	.....	Ice, manufactured.....	2.1	20.2	77.8	
Boxes, fancy and paper.....	19.9	79.3	0.7	Iron and steel, blast furnaces.....	9.3	56.3	34.4
Brass and bronze products.....	4.2	95.3	0.4	Iron and steel, steel works and rolling mills.....	1.7	98.3	.....
Bread and other bakery products.....	9.5	79.6	10.9	Iron and steel, bolts, nuts, washers, and rivets, not made in steel works and rolling mills.....	18.9	81.0	0.2
Brick and tile.....	12.4	84.3	3.2	Jewelry.....	2.8	89.8	0.5
Butter, cheese, and condensed milk.....	10.9	40.9	42.1	Leather goods.....	3.4	96.5	.....
Buttons.....	7.0	91.3	1.7	Leather, tanned, curried, and finished.....	1.9	76.9	21.1
Canning and preserving.....	6.6	84.4	0.0	Lime.....	43.6	47.6	2.9
Carpets and rugs, other than rag.....	1.0	98.9	.....	Liquors, malt.....	5.9	89.7	13.4
Carriages and wagons and materials.....	11.6	87.8	0.7	Locomotives, not made by railroad companies.....	49.3	49.1	0.3
Cars and general shop construction and repairs by steam-railroad companies.....	15.4	71.3	13.3	Lumber and timber products.....	18.9	89.9	0.3
Cars and general shop construction and repairs by street-railroad companies.....	3.3	78.7	18.1	Marble and stone work.....	45.1	54.8	0.1
Cars, steam-railroad, not including operations of railroad companies.....	1.6	95.0	3.3	Mattresses and spring beds.....	15.6	82.6	2.1
Cement.....	0.1	28.9	70.9	Millinery and lace goods.....	10.0	90.0	.....
Chemicals.....	3.3	68.2	28.5	Mineral and soda waters.....	0.8	9.4	89.8
Clocks and watches, including cases and materials.....	20.7	79.4	.....	Oil, cottonseed, and cake.....	21.0	75.3	3.8
Clothing, men's, including shirts.....	27.5	72.3	0.2	Paint and varnish.....	15.4	43.4	41.3
Clothing, women's.....	48.7	50.7	0.7	Paper and wood pulp.....	18.4	80.0	1.6
Coke.....	8.0	67.4	24.5	Paper goods, not elsewhere specified.....	49.3	50.4	0.3
Confectionery.....	17.5	81.8	0.8	Patent medicines and compounds and druggists' preparations.....	0.3	76.2	23.4
Cooperage and wooden goods, not elsewhere specified.....	16.4	83.5	0.2	Petroleum, refining.....	21.8	75.8	2.5
Copper, tin, and sheet-iron products.....	23.1	75.9	1.0	Pottery, terra-cotta, and fire-clay products.....	69.8	29.9	0.3
Cordage and twine and jute and linen goods.....	1.3	96.0	2.6	Printing and publishing.....	5.1	94.8	.....
Corsets.....	17.2	82.8	.....	Rubber goods, not elsewhere specified.....	0.1	99.9	.....
Cotton goods, including cotton small wares.....	0.9	82.0	17.2	Sewing machines, cases, and attachments.....	16.1	83.9	.....
Cutterly and tools, not elsewhere specified.....	11.5	88.4	0.2	Shipbuilding, including boat building.....	2.5	97.5	.....
Dyeing and finishing textiles.....	2.7	93.6	3.7	Silk and silk goods, including throwsters.....	8.4	91.6	.....
Electrical machinery, apparatus, and supplies.....	17.2	82.7	.....	Silverware and plated ware.....	10.1	88.7	1.2
Fancy articles, not elsewhere specified.....	14.5	85.4	0.1	Slaughtering and meat packing.....	1.3	80.4	18.2
Fertilizers.....	0.4	85.4	14.2	Smelting and refining, copper.....	18.5	81.2	0.2
Firearms and ammunition.....	0.5	98.9	0.6	Soap.....	12.6	87.3	0.2
Flour-mill and gristmill products.....	10.1	59.1	30.8	Stoves and furnaces, including gas and oil stoves.....	39.4	60.2	0.4
Food preparations.....	13.9	72.9	13.3	Tobacco manufactures.....	44.1	52.9	2.9
Foundry and machine-shop products.....	7.4	91.8	0.8	Turpentine and rosin.....	0.4	98.8	0.8
Fur goods.....	52.4	47.6	.....	Wire.....	5.1	93.3	1.5
Furnishing goods, men's.....	26.4	73.6	.....	Wood, turned and carved.....	0.3	92.2	1.5
Furniture and refrigerators.....	8.5	91.3	0.2	Woolen, worsted, and felt goods, and wool hats.....	0.8	98.5	0.8
Gas and electric fixtures and lamps and reflectors.....	19.7	79.3	1.0				

There are very wide differences among the individual industries covered by Table 2 with respect to the prevailing hours of labor. These differences are due to a variety of causes. It is usually the case that skilled laborers are able to secure a shorter working day than the unskilled. Some industries require continuous operation day and night, and in such industries, for convenience, there are likely to be either two shifts of 12 hours each or three shifts of 8 hours each. The working day in large cities is likely to be shorter than that in small towns or rural districts, partly because of the greater length of time the working people ordinarily require to go to and from the factories. In industries chiefly conducted in such cities, therefore, the working day of a large proportion of the wage earners is likely to be shorter than the average. The presence or absence of labor organizations, or differences in the strength of such organizations, doubtless have considerable influence upon the hours of labor.

Again, the differences between different industries in the United States as a whole with respect to the prevailing hours of labor are due, in part, to differences in the geographic distribution of the establishments. In some sections of the country the customary working day in manufacturing industries generally is longer than in other sections. In industries which are mainly conducted in states where the customary working day in general is short, it is likely, of course, that a large proportion of the wage earners in the United States as a whole will be shown to have a relatively short working day.

To some extent the prevailing hours of labor in certain industries have been affected by state legislation. While state legislatures have in very few cases directly limited the hours of labor of men in any manufacturing industry, there are in certain states restrictions upon the hours of labor of women, and in many states restrictions upon those of children. In

MANUFACTURES.

industries in which considerable numbers of women and children are employed, the working time of the men may be indirectly determined by such legislation as to the hours of women and children.

In 7 of the 86 industries covered by Table 2, more than two-fifths of the wage earners in 1909 were employed in establishments where the prevailing hours of labor exceeded 60 per week. These industries were "iron and steel, blast furnaces" (96.6 per cent of the wage earners employed in establishments where the prevailing hours exceeded 60 per week); "oil, cottonseed, and cake" (89.8 per cent); "ice, manufactured" (77.8 per cent); "gas, illuminating and heating" (72.9 per cent); "cement" (70.9 per cent); "butter, cheese, and condensed milk" (42.1 per cent); and "paper and wood pulp" (41.3 per cent). Among these 7 industries there are 4 in which more than half of the employees were reported by establishments operating 72 hours or more per week, namely, the blast-furnace, gas, artificial-ice, and cottonseed-oil industries. In the other 3 the number working in establishments where the prevailing hours were 60 or between 60 and 72 per week (in most cases 11 hours per day) was greater than the number working 72 hours or more. There are 4 other industries in which over 25 per cent of the wage earners were in establishments where the prevailing hours exceeded 60 per week, these industries including the very important steel works and rolling mill and flour mill and gristmill industries.

On the other hand, there are 11 industries among the 86 covered by the table in which two-fifths or more of the wage earners in 1909 were in establishments

where the prevailing hours were less than 54 per week. These industries are "artificial flowers and feathers and plumes" (74.2 per cent of the wage earners employed in establishments where the prevailing hours were less than 54 per week); "printing and publishing" (69.8 per cent); "fur goods" (52.4 per cent); "liquors, malt" (49.6 per cent); "marble and stone work" (49.3 per cent); "patent medicines and compounds and druggists' preparations" (49.3 per cent); "clothing, women's" (48.7 per cent); "millinery and lace goods" (45.1 per cent); "turpentine and rosin" (44.1 per cent); "glass" (40.6 per cent); and "hats, fur-felt" (40.6 per cent). In 3 of these industries—printing and publishing, the brewery industry, and marble and stone work—more than 40 per cent of the wage earners in 1909 were employed in establishments where the prevailing hours were 48 or less.

Prevailing hours in individual industries, by states.—Table 9, at the end of this chapter, shows, for each of the 86 leading industries, the number of wage earners employed in establishments classified according to prevailing hours of labor, by states. This table contains no percentages. Figures are given for each state in which the particular industry is of any considerable importance, except in cases where individual operations would be disclosed by so doing.

The following table shows, by states, for the 5 industries which in 1909 gave employment to more than 250,000 wage earners, the per cent distribution of the wage earners according to the prevailing hours of labor in the establishments in which they were employed.

DISTRIBUTION OF WAGE EARNERS IN THE FIVE LEADING INDUSTRIES ACCORDING TO PREVAILING HOURS OF LABOR, BY STATES: 1909.

STATE.	WAGE EARNERS: 1909							WAGE EARNERS: 1909								
	Total (average number).	Per cent in establishments where the prevailing hours per week were—						Total (average number).	Per cent in establishments where the prevailing hours per week were—							
		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.		
LUMBER AND TIMBER PRODUCTS.																
United States.....	685,019	3.4	2.5	6.0	7.2	67.5	13.1	0.3	Montana.....	3,106	1.2	.....	49.9	0.3	44.0	4.5
Alabama.....	22,409	5.6	3.0	2.0	1.7	46.2	40.9	0.6	Nebraska.....	543	0.6	.....	27.3	48.1	24.1	.....
Arizona.....	839	1.3	.....	0.8	97.9	.....	.....	Nevada.....	186	0.5	.....	24.7	.....	74.7	.....
Arkansas.....	32,932	1.5	3.4	1.2	1.6	89.0	2.8	0.5	New Hampshire.....	8,464	0.5	0.5	10.9	36.1	48.6	3.2
California.....	22,935	16.8	0.3	11.8	1.0	64.2	5.8	0.1	New Jersey.....	4,857	15.0	18.7	28.2	22.5	15.4	0.1
Colorado.....	2,190	10.0	14.0	7.4	1.2	65.6	1.9	.....	New Mexico.....	1,475	10.0	1.1	1.3	.....	87.5	0.1
Connecticut.....	3,495	10.4	9.1	33.7	3.2	41.5	.....	.....	New York.....	27,471	6.8	4.9	13.9	21.7	51.3	1.4
Delaware.....	1,174	5.5	25.5	5.4	31.3	32.3	.....	.....	North Carolina.....	34,001	2.2	2.1	0.8	67.1	19.2	0.8
District of Columbia.....	300	100.0	.....	.....	.....	.....	.....	North Dakota.....	63	.....	.....	34.9	65.1	.....	.....
Florida.....	19,227	1.2	5.2	2.3	3.8	48.4	38.6	0.5	Ohio.....	13,456	5.2	2.7	20.8	16.6	54.6	(1)
Georgia.....	22,257	3.9	3.3	0.6	3.9	66.1	19.9	2.2	Oklahoma.....	3,175	25.2	5.7	4.9	51.4	8.0	.....
Idaho.....	5,212	0.6	0.5	2.1	.....	95.3	1.3	0.2	Oregon.....	15,066	2.4	0.7	1.6	1.2	91.4	2.6
Illinois.....	16,567	5.3	2.8	29.5	31.6	30.7	(1)	0.2	Pennsylvania.....	26,873	2.9	3.7	15.3	14.8	48.3	14.2
Indiana.....	10,317	2.5	4.3	10.2	11.2	71.7	(1)	.....	Rhode Island.....	748	10.3	1.7	25.5	35.7	20.7	0.7
Iowa.....	4,658	0.3	0.2	11.3	12.5	71.1	4.6	.....	South Carolina.....	14,604	3.9	4.3	0.5	5.1	66.3	17.7
Kansas.....	952	4.3	0.3	13.6	32.7	49.1	.....	.....	South Dakota.....	451	1.8	0.7	2.9	.....	0.4	2.3
Kentucky.....	13,042	4.9	6.6	6.8	5.1	74.9	1.2	0.4	Tennessee.....	22,689	3.3	3.1	3.7	4.2	80.3	5.3
Louisiana.....	46,072	0.8	0.6	1.9	0.7	56.4	39.5	0.2	Texas.....	23,518	2.7	1.5	3.3	1.3	72.1	19.0
Maine.....	15,086	0.2	0.9	7.0	8.7	58.2	24.9	(1)	Utah.....	431	38.3	19.7	22.5	.....	17.4	2.1
Maryland.....	7,003	5.0	5.8	12.1	19.1	57.7	0.2	0.1	Vermont.....	4,790	0.7	0.1	5.9	21.4	70.6	1.2
Massachusetts.....	8,976	11.8	11.0	20.0	40.1	16.6	0.5	0.1	Virginia.....	33,287	2.7	3.7	2.9	10.2	61.1	18.9
Michigan.....	35,627	1.0	0.7	2.0	4.9	91.0	0.3	0.1	Washington.....	43,749	0.3	0.1	2.3	0.7	96.2	0.3
Minnesota.....	20,704	0.6	.....	1.1	2.1	94.5	1.6	(1)	West Virginia.....	18,643	0.0	1.1	2.0	4.1	75.1	16.9
Mississippi.....	33,397	1.5	0.9	1.5	3.7	48.9	43.3	0.2	Wisconsin.....	34,093	0.7	0.2	2.4	3.5	91.6	1.6
Missouri.....	13,522	8.5	5.3	12.4	1.6	71.6	0.5	(1)	Wyoming.....	649	1.2	1.5	0.9	0.6	94.3	1.4

¹ Less than one-tenth of 1 per cent.

PREVAILING HOURS OF LABOR.

309

DISTRIBUTION OF WAGE EARNERS IN THE FIVE LEADING INDUSTRIES ACCORDING TO PREVAILING HOURS OF LABOR, BY STATES: 1909—Continued.

Table 3—Continued.

STATE.	Total (average number).	WAGE EARNERS: 1909							STATE.	WAGE EARNERS: 1909							
		Per cent in establishments where the prevailing hours per week were—								Per cent in establishments where the prevailing hours per week were—							
		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	72 and over.		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	72 and over.	
FOUNDRY AND MACHINE-SHOP PRODUCTS.																	
United States.....	531,011	2.1	5.3	28.3	27.8	25.7	0.6	0.2	Idaho.....	849	84.6	0.2	15.2	
Alabama.....	5,898	1.4	1.5	17.5	9.7	69.6	0.3	Illinois.....	23,131	1.6	6.9	57.6	2.5	10.3	20.7	0.4
Arizona.....	64	10.9	57.2	9.4	12.5	Indiana.....	12,884	9.9	10.5	16.1	29.7	17.5	10.3	0.2	
Arkansas.....	447	0.4	.....	32.4	3.6	63.5	.....	Iowa.....	24.2	.....	21.3	1.5	28.7	24.1	.....	
California.....	8,377	15.8	33.1	30.9	14.5	4.9	0.7	Kansas.....	7,688	4.4	39.1	45.8	10.8	
Colorado.....	1,813	9.4	19.5	50.1	0.4	19.2	1.3	Kentucky.....	5,605	44.5	39.4	2.8	3.7	10.1	
Connecticut.....	37,736	0.5	3.3	35.8	49.5	10.8	(1)	Louisiana.....	2,425	0.8	69.4	14.1	25.7	
Delaware.....	2,210	8.4	5.0	51.9	32.8	2.0	.....	Maine.....	1,200	.....	55.8	22.3	16.0	3.7	2.2
District of Columbia.....	509	64.8	15.7	19.4	.....	.....	.....	Maryland.....	5,549	0.4	.....	57.0	28.8	13.9	.....	
Florida.....	508	9.8	14.0	28.3	4.5	43.3	.....	Massachusetts.....	5,162	4.5	23.0	71.5	.....	1.0	.....	
Georgia.....	2,892	0.2	10.6	1.4	27.5	60.3	.....	Michigan.....	5,401	.....	11.9	27.0	35.3	23.6	.....	
Idaho.....	74	6.8	.....	64.9	9.5	18.9	.....	Minnesota.....	8,232	4.1	18.0	45.8	.....	26.2	2.9
Illinois.....	52,286	1.5	6.6	42.7	26.7	21.1	(1)	Mississippi.....	2,572	.....	20.3	61.3	.....	17.0	1.4
Indiana.....	15,809	2.4	8.9	13.5	35.8	39.4	(1)	Missouri.....	8,121	17.2	64.5	6.6	3.4	8.0	0.3	
Iowa.....	5,108	0.7	0.4	13.2	34.7	50.8	0.1	Montana.....	1,913	7.7	69.7	5.5	3.9	13.2	
Kansas.....	2,110	0.6	0.4	29.4	18.0	55.5	1.1	Nebraska.....	3,685	.....	63.9	17.3	3.1	25.7	.....	
Kentucky.....	4,479	0.2	8.1	37.8	16.6	36.9	0.4	Nevada.....	818	5.4	75.1	5.1	14.4	
Louisiana.....	1,314	1.1	0.1	60.6	5.5	32.2	0.6	New Hampshire.....	1,158	.....	99.7	.....	.....	0.3	.....	
Maine.....	2,885	0.3	0.3	26.8	57.1	15.5	New Jersey.....	6,604	15.2	20.2	22.6	15.6	9.1	15.0	2.3	
Maryland.....	4,798	3.6	32.7	36.4	8.8	18.5	.....	New Mexico.....	1,489	.....	17.8	2.3	79.9	.....	.....
Massachusetts.....	44,179	0.7	2.8	25.0	67.3	4.0	0.2	New York.....	16,454	2.3	6.9	13.3	24.0	15.1	31.1	7.3	
Michigan.....	21,649	0.7	0.5	18.2	43.1	37.4	0.1	North Carolina.....	2,568	.....	4.7	93.0	.....	2.3	.....	
Minnesota.....	6,002	0.5	0.9	14.3	56.6	27.6	.....	North Dakota.....	463	.....	26.8	46.7	.....	26.6	.....	
Mississippi.....	583	0.2	2.2	31.6	64.7	1.4	Ohio.....	20,728	8.3	12.8	14.7	30.3	19.8	7.3	6.8	
Missouri.....	7,443	2.7	7.5	62.6	8.9	18.2	Oklahoma.....	1,412	13.8	63.5	2.2	20.5	
Montana.....	316	87.0	.....	11.7	1.3	.....	Pennsylvania.....	777	2.4	.....	89.7	.....	2.7	5.1	.....	
Nebraska.....	1,020	0.9	7.3	11.4	12.7	67.6	0.1	South Carolina.....	46,645	11.2	5.5	2.8	59.2	17.2	3.2	0.9	
Nevada.....	44	29.5	.....	70.4	.....	.....	Tennessee.....	327	.....	95.7	4.3	.....	.....	.....
New Hampshire.....	2,306	1.1	0.9	40.3	41.1	16.7	Utah.....	9,782	10.3	1.6	52.1	7.4	17.7	10.9	0.1	
New Jersey.....	27,815	1.2	6.8	23.3	34.2	15.6	(1)	Vermont.....	1,731	.....	59.3	.....	40.7	.....	.....
New Mexico.....	38	.....	.....	84.2	.....	15.8	.....	Virginia.....	992	.....	17.1	.....	81.0	1.0	0.8
New York.....	64,066	3.1	11.1	36.0	23.6	28.0	0.2	Washington.....	7,588	22.7	10.8	11.2	29.0	4.1	4.1	18.2	
North Carolina.....	1,490	0.4	0.4	7.9	15.7	75.4	0.2	West Virginia.....	2,716	21.1	52.2	0.9	22.1	3.6	
Ohio.....	64,817	1.2	3.9	17.1	43.6	33.7	0.5	Wisconsin.....	5,652	0.9	0.6	28.6	44.0	7.3	18.6	
Oklahoma.....	457	3.9	0.2	19.7	0.2	75.1	0.9	Wyoming.....	8,994	1.4	10.9	79.2	3.0	4.5	1.1	
Oregon.....	1,055	3.4	11.6	76.0	1.6	7.4	.....	1,690	.....	0.8	8.0	.....	91.2	.....	.....
Pennsylvania.....	86,821	3.0	1.7	25.8	36.7	30.0	2.5	.....	.....	.....	.....	.....	.....	.....	.....
Rhode Island.....	10,937	0.1	3.2	11.2	76.9	8.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	417	.....	.....	45.6	5.3	48.2	1.0	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	78	2.6	.....	5.1	92.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tennessee.....	4,041	0.2	0.3	24.9	10.9	63.1	0.5	(1)	.....	.....	.....	.....	.....	.....	.....
Texas.....	2,925	1.7	9.7	60.6	1.2	26.4	0.1	0.3	.....	.....	.....	.....	.....	.....	.....
Utah.....	373	12.3	5.6	71.0	8.8	1.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vermont.....	1,860	.....	.....	47.4	38.7	14.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
Virginia.....	2,798	0.1	1.2	20.8	20.8	57.0	(1)	.....	.....	.....	.....	.....	.....	.....	.....
Washington.....	2,439	13.6	2.4	81.3	0.4	1.9	0.4	.....	.....	.....	.....	.....	.....	.....	.....
West Virginia.....	1,354	0.7	2.3	37.8	12.5	44.2	2.5	.....	.....	.....	.....	.....	.....	.....	.....
Wisconsin.....	24,219	0.2	1.2	2.1	60.1	36.4	(1)	.....	.....	.....	.....	.....	.....	.....	.....
COTTON GOODS, INCLUDING COTTON SMALL WARES.																	
United States.....	378,880	0.1	0.8	0.1	50.4	31.5	17.1	0.1	United States.....	258,434	53.7	16.1	18.3	7.4	4.2	0.2	0.1
Alabama.....	12,731	0.3	3.7	57.5	37.8	0.7	Alabama.....	1,117	40.0	2.9	31.4	8.9	16.8
Connecticut.....	14,360	0.2	93.7	6.1	Arizona.....	268	79.1	20.5	0.4	0.4
Georgia.....	27,803	1.1	0.4	1.9	39.1	57.2	0.3	Arkansas.....	981	42.7	5.0	18.6	8.9	24.2	0.3
Illinois.....	1,319	67.2	7.3	25.5	California.....	7,556	72.6	13.7	10.3	1.6	0.2
Indiana.....	1,582	2.4	97.6	Colorado.....	2,366	74.3	3.3	7.3	13.0	1.7	0.4
Kentucky.....	1,044	82.2	17.8	Connecticut.....	2,878	47.7	22.9	16.5	12.0	0.9
Maine.....	14,634	7.6	92.3	Delaware.....	288	60.4	1.0	27.4	5.9	5.2
Maryland.....	3,966	100.0	Florida.....	1,565	80.4	10.3	3.9	5.3	0.1
Massachusetts.....	105,914	(1)	(1)	99.8	(1)	0.1	Georgia.....	2,395	9.4	21.7	27.7	12.6	16.3	0.3	0.3
Mississippi.....	2,645	4.5	54.2	41.3	Idaho.....	468	66.0	8.1	21.8	3.4	0.6
New Hampshire.....	22,290	100.0	Illinois.....	28,644	63.1	15.7	13.9	4.5	2.2	0.2	0.4
New Jersey.....	6,638	(1)	83.4	16.5	Indiana.....	6,756	57.9	7.4	14.8	9.3	10.5	(1)	0.1
New York.....	10,663	2.3	0.2	12.0	85.6	Kansas.....	3,232	39.1	5.7	22.3	18.8	13.7	0.2	0.2
North Carolina.....	47,231	0.1	15.9	84.0	Kentucky.....	3,135	24.3	25.6	24.8	5.7	9.0	0.2	0.3
Ohio.....	177	31.6	68.4	Louisiana.....	1,544	50.1	12.6	23.1	7.7	5.9	0.1	0.6
Pennsylvania.....	16,293	6.8	50.9	42.3	Maine.....	1,651	34.7	8.6	41.8	12.6	2.3
Rhode Island.....	23,786	0.1	99.5	0.3	Maryland.....	3,386	34.6	32.0	20.1	7.1	12.6	3.3
South Carolina.....	45,454	1.0	99.0	Massachusetts.....	17,532	65.0	10.6	16.6	7.7	0.1	(1)
Tennessee.....	9,078	2.1	43.3	53.4	1.2	Michigan.....	7,219	37.7	11.5	32.3	11.5	6.9	(1)
Texas.....	1,590	3.1	25.0	75.0	7.5	Minnesota.....	5,641	38.8	37.3	15.3	7.0	3.7	2.9
Vermont.....	683	96.9	Mississippi.....	736	45.8	1.0	15.9	3.3	33.6	0.4	0.1
Virginia.....	5,057	.....	.....	100.0											

MANUFACTURES.

This table shows that there is in some industries a certain approach toward uniformity in the hours of labor in different states, but this approach is by no means close in any of the 5 industries covered by Table 3, nor, in fact, in any of the industries shown in Table 9. The prevailing hours are often affected by local conditions and do not depend altogether upon the character of the industry itself.

In the lumber industry a very large proportion of the wage earners are employed in establishments where the prevailing hours are 60 per week; for the United States as a whole the proportion in 1909 was 67.5 per cent. In each of the states except Illinois, Massachusetts, Montana, Nebraska, New Jersey, Rhode Island, and Utah a larger number were employed in establishments working 60 hours per week than in establishments of any other class, and in 33 states more than half of all the wage earners were in such establishments. There were only 8 states in which as many as one-fifth of the wage earners in this industry were in establishments where the prevailing hours exceeded 60 per week; and, on the other hand, in only 2 states, together with the District of Columbia, were as many as one-fifth employed in establishments working 48 hours or less per week.

In the foundry and machine-shop industry the great majority of the wage earners were employed in establishments where the prevailing hours were either 54, 60, or between 54 and 60 per week. This was true not only of the United States as a whole but of nearly all of the states individually. In no state except Pennsylvania and West Virginia were as many as 2 per cent of the wage earners employed in establishments where the prevailing hours exceeded 60, and in many of the states there were no establishments of this class. In Montana and the District of Columbia more than half of the wage earners were employed in establishments where the prevailing hours were 48 or less, but in only 5 other states—Arizona, California, Nevada, Utah, and Washington—did the proportion reach 10 per cent.

In the cotton-goods industry there are marked differences between the North and South with respect to the prevailing hours of labor. In most of the northern states nearly all of the wage earners in 1909 were in establishments where the prevailing hours were either 60 or between 54 and 60 per week. In most of the southern states a considerable proportion of the wage earners in this industry were likewise in establishments working on the 60-hour basis, but large numbers were in establishments where the working time exceeded 60 hours per week. In Maryland, South Carolina, and Virginia, however, none of the establishments were reported as working more than 60 hours.

In the steam-railroad repair shops ("cars and general shop construction and repairs by steam-railroad companies") there was a considerable variation among the states with respect to the prevailing hours of labor. In the United States as a whole 35.6 per cent of the

wage earners in this industry were in establishments where the prevailing hours were 54 per week, and there were 28 states in which this was the most common working time reported. In 2 states, Connecticut and Kentucky, the most common working time was 48 hours or less; and in 3—Colorado, New York, and Wyoming—the most common period was in excess of 60 hours.

In the printing and publishing industry the 8-hour day and the 9-hour day are both common. In the United States as a whole 53.7 per cent of the wage earners in 1909 were in establishments where the prevailing hours per week were 48 or less, and in 19 states a majority of the wage earners were employed in such establishments, while in 24 other states the number so employed was greater than the number employed in establishments of any other single class. The only states in which more than one-fourth of the wage earners in this industry were in establishments where the prevailing hours exceeded 54 per week were Alabama, Arkansas, Georgia, Iowa, Kansas, Mississippi, New Hampshire, North Carolina, and South Carolina.

The degree of uniformity among different states with respect to the prevailing hours of labor in a given industry is affected by the fact that in some industries the processes and products of all or nearly all establishments are substantially similar, while in other industries there are marked differences among establishments in respect to processes and products. In the latter case it may readily happen that establishments with one class of processes and of products will have prevailing hours different from those of establishments with other processes and products; and conditions in different states may be affected by the characteristics of the establishments located in them. The effect of such conditions is brought out by Table 4, which shows, by percentages, the distribution of wage earners in the slaughtering and meat-packing industry and the paper and wood-pulp industry according to the prevailing hours of labor in the establishments where they were employed, for the states in which these industries are of importance.

In the slaughtering and meat-packing industry the great majority of the establishments are engaged—at least primarily—in substantially similar processes and turn out similar products; and in every state in which the industry is important more than half of the wage earners were, in 1909, employed in establishments where the prevailing hours were 60 per week. In no state except Georgia were any considerable proportion in establishments where the prevailing hours exceeded 60, and in only 5 states—Alabama, Illinois, Louisiana, Maine, and Montana—were 10 per cent or more in establishments where the working time was 48 hours or less per week.

On the other hand, in the paper and wood-pulp industry there are great differences among establishments with respect to the character of the processes and products. Some mills make only wood pulp, some

make both paper and pulp, and some make only paper, and there are wide differences in the kinds of paper made and in the processes employed in making it. As a result of these conditions there is very little uniformity among the states named in Table 4 with respect to the prevailing hours of labor. In a number of states

a large majority of the wage earners in 1909 were in establishments where the prevailing hours exceeded 60 per week, while in other states a majority were employed in establishments where the working time was 60 hours per week, and in 3 a majority were in establishments where it was less than 60 hours.

Table 4

STATE.	WAGE EARNERS: 1909							
	Total (average number).	Per cent in establishments where the prevailing hours per week were—						
		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	
SLAUGHTERING AND MEAT PACKING.								
United States.....	89,728	5.5	4.6	11.7	4.8	72.2	0.7	0.6
Alabama.....	47	12.8	57.4	.....	.....	8.5	21.3	.....
California.....	1,641	3.4	2.3	27.7	.....	62.7	2.9	1.1
Colorado.....	659	.....	.....	43.6	.....	56.4	.....	.....
Connecticut.....	432	0.7	68.3	6.0	9.0	10.6	4.4	0.9
Delaware.....	82	.....	.....	4.9	.....	95.1	.....	.....
District of Columbia.....	135	6.7	.....	.....	.....	93.3	.....	.....
Florida.....	32	.....	43.8	9.4	25.0	26.7	21.9	.....
Georgia.....	90	3.3	.....	16.7	.....	87.2	12.8	.....
Idaho.....	39	.....	.....	.....	.....	34.4	18.9	.....
Illinois.....	26,705	10.9	0.2	4.3	0.2	84.5	(1)	.....
Indiana.....	4,423	0.6	.....	.....	0.5	93.9	.....	.....
Iowa.....	4,144	7.8	.....	22.3	1.4	68.4	(1)	.....
Kansas.....	10,591	3.5	27.8	7.9	.....	60.8	(1)	.....
Kentucky.....	354	5.7	1.1	50.3	4.0	37.9	1.1	.....
Louisiana.....	182	49.5	4.9	.....	.....	44.5	1.1	.....
Maine.....	107	12.1	15.9	2.8	2.8	64.5	1.9	.....
Maryland.....	1,034	2.1	0.4	2.0	0.7	94.1	0.1	0.6
Massachusetts.....	3,325	1.8	1.1	2.1	40.2	54.7	0.1	(1)
Michigan.....	902	1.6	.....	3.9	0.3	94.1	0.1	.....
Minnesota.....	1,921	0.1	0.7	1.1	0.1	97.9	0.1	.....
Missouri.....	4,674	0.1	.....	41.9	1.3	56.7	(1)	.....
Montana.....	105	21.9	.....	.....	.....	78.1	.....	.....
Nebraska.....	6,015	.....	.....	12.2	24.7	62.9	(1)	0.1
New Hampshire.....	24	.....	.....	33.3	50.0	16.7	.....	.....
New Jersey.....	1,817	6.4	14.4	2.4	7.5	60.0	0.9	8.5
New York.....	6,110	9.0	5.3	11.8	7.4	65.4	0.8	0.4
Ohio.....	3,088	0.8	0.2	15.7	2.9	75.6	2.2	2.6
Oklahoma.....	63	.....	.....	.....	.....	85.7	11.1	3.2
Oregon.....	366	.....	.....	.....	.....	92.9	1.4	5.7
Pennsylvania.....	3,050	2.1	4.1	1.4	8.9	76.4	5.2	1.8
Rhode Island.....	214	0.5	0.5	14.5	41.1	43.5	.....	.....
Tennessee.....	280	1.4	.....	0.7	.....	83.9	.....	8.9
Texas.....	3,639	0.2	.....	44.8	.....	53.6	.....	1.4

¹ Less than one-tenth of 1 per cent.

Industries in which large numbers are employed 72 hours or more per week.—There are only a few industries in the United States, comparatively speaking, in which any considerable number of wage earners are employed in establishments where the prevailing hours are 72 or more per week. Table 5 presents statistics for these industries, by states, with respect to the number of wage earners employed in such establishments. The table includes all industries in which 500 or more wage earners were, in 1909, employed in establishments where the prevailing hours were 72 or more, with the exception of a few industries in which, although the number exceeded 500, the proportion employed in establishments of this class was so small (less than 10 per cent) as scarcely to justify the presentation of detailed statistics.

In most of the industries covered by Table 5 some at least of the establishments operate continuously and have arranged their working-day in two 12-hour shifts. There are considerable variations among the states listed under each industry with respect to the

STATE.	WAGE EARNERS: 1909						
	Total (average number).	Per cent in establishments where the prevailing hours per week were—					
		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.
SLAUGHTERING AND MEAT PACKING—continued.							

STATE.	PAPER AND WOOD PULP.							
	Total (average number).	Per cent in establishments where the prevailing hours per week were—						
		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	
United States.....								
United States.....	75,978	7.4	8.0	4.5	8.7	30.2	19.6	21.7
California.....	312	.....	.....	.....	.....	55.0	37.2	4.8
Connecticut.....	1,720	.....	.....	.....	13.3	6.5	31.5	33.0
Delaware.....	546	.....	.....	.....	.....	52.4	47.6	.....
Illinois.....	1,397	.....	.....	.....	13.5	31.9	9.9	44.7
Indiana.....	1,501	.....	.....	.....	.....	17.5	9.4	73.1
Iowa.....	205	.....	.....	.....	.....	.....	15.1	84.8
Kansas.....	97	.....	.....	.....	.....	52.6	47.4	.....
Maine.....	8,647	11.7	32.1	23.0	2.7	9.7	7.7	13.0
Maryland.....	1,249	.....	.....	.....	.....	6.6	88.3	5.0
Massachusetts.....	12,548	7.3	3.0	6.6	28.8	31.3	18.9	4.1
Michigan.....	4,327	.....	.....	.....	.....	5.2	58.6	25.1
Minnesota.....	607	.....	.....	.....	.....	12.7	73.8	13.5
New Hampshire.....	3,415	37.6	14.9	.....	13.1	19.1	7.1	8.3
New Jersey.....	2,223	0.5	.....	.....	17.7	8.7	32.7	40.4
New York.....	12,073	10.7	16.4	2.3	4.2	22.0	21.2	23.2
North Carolina.....	825	.....	.....	.....	.....	10.0	32.1	26.4
Ohio.....	4,673	.....	.....	.....	.....	35.1	64.9	.....
Oregon.....	988	.....	.....	.....	1.5	2.5	54.7	1.4
Pennsylvania.....	6,656	1.8	.....	.....	3.4	19.7	5.0	5.6
Vermont.....	1,030	26.0	40.3	.....	.....	6.9	71.8	21.3
Virginia.....	912	.....	.....	.....	.....	4.9	58.5	28.3
West Virginia.....	1,162	.....	.....	.....	.....	42.8	19.3	8.3
Wisconsin.....	7,467	8.9	.....	.....	.....	.....	.....	29.0

proportion of wage earners employed in establishments with a long working day.

It may be noted with respect to the manufacture of illuminating gas that, since the gas must be made continuously, it is very commonly the custom to employ the men engaged in gas making proper on 12-hour shifts. In some cases, however, the number of wage earners employed outside of the gas plant—repairing mains and doing other miscellaneous work—is larger than the number employed in gas making. These outside workers usually have a shorter working-day than the gas makers, but it appears that as a rule the establishments in the industry reported as the prevailing working time of the plant that of the gas makers. As already stated, all the wage earners in each establishment have necessarily been classified according to the prevailing hours reported for the establishment as such. Consequently, the percentages in Table 5 for the gas industry probably materially exceed the actual percentages of the wage earners in the industry who were employed 72 hours or more per week.

MANUFACTURES.

INDUSTRIES IN WHICH LARGE NUMBERS OF WAGE EARNERS WERE EMPLOYED 72 HOURS OR MORE PER WEEK: 1909.

Table 5

INDUSTRY AND STATE.	WAGE EARNERS: 1909				INDUSTRY AND STATE.	WAGE EARNERS: 1909				
	Total (aver- age num- ber).	In establishments where the prevailing hours were—		Total (aver- age num- ber).		In establishments where the prevailing hours were—				
		72.	Over 72.			72.	Over 72.			
		Number.	Per cent of total.		Number.	Per cent of total.	Number.	Per cent of total.		
Beet sugar.	7,204	508	7.1	4,934	68.5	Glucose and starch.	4,773	658	13.8	
California.	1,727	61	3.5	1,666	96.5	Illinois.	1,516	.....	2,102	44.8
Colorado.	2,020	.....	.....	455	22.5	Indiana.	866	166	1,444	95.3
Idaho.	391	.....	.....	391	100.0	Iowa.	1,069	.....	217	25.1
Michigan.	1,460	.....	.....	1,460	100.0	New Jersey.	531	492	432	40.4
Utah.	689	375	54.4	314	45.6	Ice, manufactured.	18,114	2,128	13.2	8,421
Wisconsin.	248	.....	.....	248	100.0	Alabama.	343	59	17.2	62.1
Cement.	26,775	146	0.5	10,427	38.9	Arkansas.	352	47	13.4	60.8
Alabama.	135	.....	.....	115	85.2	California.	666	1	0.2	116
California.	2,407	.....	.....	208	8.6	Colorado.	251	29	11.6	140
Colorado.	409	.....	.....	334	81.7	Florida.	461	87	18.9	210
Georgia.	195	.....	.....	162	83.1	Georgia.	494	66	13.4	330
Illinois.	1,395	.....	.....	1,355	97.1	Illinois.	804	75	9.3	259
Indiana.	2,318	.....	.....	883	38.1	Indiana.	563	80	14.2	356
Kansas.	2,143	.....	.....	469	21.9	Iowa.	151	74	49.0	44
Kentucky.	107	.....	.....	103	96.3	Kansas.	593	75	12.6	302
Michigan.	1,306	.....	.....	974	74.6	Kentucky.	472	53	11.2	362
New Jersey.	1,445	.....	.....	326	22.6	Louisiana.	633	65	10.3	427
New York.	1,443	.....	.....	285	19.8	Maryland.	355	40	11.3	241
Ohio.	887	.....	.....	748	84.1	Mississippi.	341	84	24.6	181
Pennsylvania.	8,080	.....	.....	3,016	37.3	Missouri.	761	41	5.4	509
South Dakota.	100	.....	.....	100	100.0	New Jersey.	456	70	15.4	146
Tennessee.	469	.....	.....	469	100.0	New York.	1,124	26	2.3	534
Texas.	362	.....	.....	324	89.5	North Carolina.	318	154	48.4	87
Washington.	288	.....	.....	288	100.0	Ohio.	892	152	17.0	436
West Virginia.	116	.....	.....	116	100.0	Oklahoma.	449	24	5.3	247
Chemicals.	23,714	514	2.2	4,193	17.7	Pennsylvania.	1,606	271	16.9	842
Illinois.	836	48	5.7	59	7.1	South Carolina.	218	55	25.2	119
Maryland.	285	.....	.....	154	54.0	Tennessee.	779	87	11.2	611
Michigan.	3,174	96	3.0	1,441	45.4	Texas.	1,437	181	12.6	940
New Jersey.	5,046	74	1.5	862	17.1	Virginia.	475	147	30.9	218
New York.	5,746	122	2.1	375	6.5	West Virginia.	233	33	14.2	66
Ohio.	1,132	84	3.0	330	29.2	Iron and steel, blast furnaces.	38,429	1,304	3.4	31,729
Pennsylvania.	3,185	13	0.4	694	21.8	Alabama.	3,783	.....	2,221	58.7
Rhode Island.	156	5	3.2	148	94.9	Connecticut.	143	143	100.0	.....
Coke.	29,273	49	0.2	3,231	11.0	Illinois.	2,493	.....	2,493	100.0
Alabama.	2,580	49	1.9	442	17.1	Indiana.	324	.....	324	100.0
Illinois.	746	.....	.....	746	100.0	Kentucky.	331	.....	267	80.7
New York.	517	.....	.....	517	100.0	Michigan.	1,016	.....	961	94.6
Pennsylvania.	15,331	.....	.....	1,093	7.1	Minnesota.	267	.....	267	100.0
Virginia.	1,425	.....	.....	316	22.2	New Jersey.	269	.....	266	100.0
Flour-mill and gristmill products.	39,453	7,132	18.1	338	0.9	New York.	754	235	31.2	433
Georgia.	386	210	54.4	323	5.3	Ohio.	2,295	335	14.6	1,488
Illinois.	2,464	471	19.1	30	1.2	Pennsylvania.	14,521	467	3.2	13,170
Indiana.	2,288	571	24.8	47	2.0	Tennessee.	1,438	73	6.4	881
Kansas.	2,360	639	27.1	122	5.2	Virginia.	1,320	50	3.8	1,052
Kentucky.	1,401	317	22.6	1	0.4	West Virginia.	343	.....	343	100.0
Maryland.	508	184	36.4	2	0.4	Wisconsin.	758	.....	758	100.0
Minnesota.	4,345	232	5.3	.....	.....	Iron and steel, steel works and rolling mills.	240,076	49,384	20.6	2,954
Missouri.	2,198	709	32.3	9	0.4	Alabama.	1,885	260	13.8	.....
Nebraska.	839	116	13.8	3	0.4	Colorado.	2,152	2,152	100.0	.....
New York.	2,980	335	11.2	10	0.3	Georgia.	500	500	100.0	.....
Ohio.	2,585	253	9.8	1	(1)	Illinois.	17,584	10,074	57.3	128
Oklahoma.	842	271	32.2	.....	Kentucky.	12,255	4,889	39.7	0.7	
Pennsylvania.	2,432	263	10.8	24	1.0	Maryland.	2,372	490	20.7	.....
Tennessee.	1,577	913	57.9	1	0.1	New York.	1,928	275	14.3	.....
Texas.	1,216	625	51.4	.....	Ohio.	10,091	3,161	31.3	.....
Virginia.	1,014	300	29.6	7	0.7	Pennsylvania.	38,586	4,709	12.2	.....
Washington.	644	177	27.5	.....	Wisconsin.	126,911	21,849	17.2	2,826	
Gas, illuminating and heating.	37,215	2,890	7.8	18,473	49.6	2,124	1,025	48.3	2.2	
Alabama.	259	.....	.....	114	44.0	Lime.	13,897	415	3.0	1,145
Connecticut.	926	.....	.....	420	45.4	Alabama.	411	57	13.9	57
Georgia.	459	36	7.8	418	90.6	Maine.	526	.....	327	62.2
Illinois.	6,301	8	0.1	5,433	86.3	Massachusetts.	557	147	26.4	97
Indiana.	928	3	0.3	456	49.1	Ohio.	1,273	26	2.0	181
Iowa.	806	24	3.0	377	46.8	Virginia.	716	59	8.2	67
Kentucky.	388	16	4.1	305	79.0	Liquors, distilled.	6,420	755	11.7	42
Louisiana.	273	.....	.....	276	99.3	Illinois.	750	258	34.4	.....
Maine.	216	10	4.6	92	42.6	Indiana.	428	297	69.4	.....
Maryland.	476	4	0.8	441	92.6	Oil, cottonseed, and cake.	17,071	12,568	73.6	477
Massachusetts.	2,292	14	0.6	999	43.0	Alabama.	1,618	841	52.0	122
Michigan.	1,771	46	2.6	521	29.4	Arkansas.	1,086	802	78.8	22
Minnesota.	848	813	95.9	813	86.4	Georgia.	2,888	2,146	74.3	39
Missouri.	941	33	3.5	813	86.4	Louisiana.	894	524	58.6	26
Nebraska.	400	.....	.....	347	86.8	Mississippi.	2,503	1,788	71.4	33
New Jersey.	1,917	4	0.2	1,595	83.2	North Carolina.	1,165	1,025	88.0	2
New York.	6,422	1,661	25.9	3,349	52.1	Oklahoma.	581	458	84.0	64
Ohio.	666	8	1.2	453	68.0	South Carolina.	1,765	1,351	76.5	10
Pennsylvania.	3,119	15	0.5	576	18.5	Tennessee.	806	806	100.0	0.6
South Carolina.	127	.....	.....	112	88.2	Texas.	3,073	2,565	83.5	159
Tennessee.	422	103	24.4	237	56.2				5.2	
Texas.	575	45	7.8	102	17.7					
Virginia.	378	.....	.....	334	88.4					
Wisconsin.	1,063	.....	.....	253	23.8					

¹ Less than one-tenth of 1 percent.

* As to the significance of the figures for this industry, see discussion in text.

PREVAILING HOURS OF LABOR.

313

INDUSTRIES IN WHICH LARGE NUMBERS OF WAGE EARNERS WERE EMPLOYED 72 HOURS OR MORE PER WEEK: 1909—Continued.

Table 5—Continued.

INDUSTRY AND STATE.	WAGE EARNERS: 1909					INDUSTRY AND STATE.	WAGE EARNERS: 1909					
	Total (aver- age num- ber).	In establishments where the prevailing hours were—					Total (aver- age num- ber).	In establishments where the prevailing hours were—				
		72.		Over 72.				72.		Over 72.		
		Num- ber.	Per cent of total.	Num- ber.	Per cent of total.			Num- ber.	Per cent of total.	Num- ber.	Per cent of total.	
Oil, linseed.....	1,452	618	42.4	255	17.6	Salt.....	4,936	431	8.7	156	3.2	
Illinois.....	133	100	75.2	24	18.0	Kansas.....	451	117	25.9	
Minnesota.....	374	88	23.5	142	38.0	Ohio.....	648	240	37.0	
New York.....	566	249	44.0	Smelting and refining, not from the ore.....	2,147	23	1.1	664	30.9	
Ohio.....	213	125	58.7	.....	New Jersey.....	1,057	.....	.....	580	54.9
Paper and wood pulp.....	75,978	15,706	20.7	751	1.0	Sugar and molasses.....	4,127	2,092	50.7	1,828	44.3	
Connecticut.....	1,720	270	15.7	.....	Virginia.....	3,931	1,992	50.7	1,788	45.5	
Delaware.....	546	200	47.6	.....	Texas.....	144	100	69.4	39	27.1	
Illinois.....	1,397	624	44.7	.....	Sugar, refining, not including beet sugar.....	9,399	2,217	23.6	743	7.9	
Indiana.....	1,501	954	63.6	143	9.5	Louisiana.....	1,162	376	32.4	136	11.7	
Iowa.....	205	174	84.9	.....	Massachusetts.....	591	428	72.4	.....	.....
Maine.....	8,647	1,085	12.5	40	0.5	New York.....	4,087	1,287	31.5	807	14.9	
Massachusetts.....	12,848	525	4.1	.....	Texas.....	126	126	100.0	.....	.....
Michigan.....	4,327	484	11.2	.....	Sulphuric, nitric, and mixed acids.....	2,252	130	5.8	887	38.5	
New Hampshire.....	3,413	262	7.7	20	0.6	Illinois.....	323	323	100.0	
New Jersey.....	2,223	843	37.9	54	2.4	New Jersey.....	434	13	3.0	264	60.8	
New York.....	12,078	2,500	20.7	299	2.5	Ohio.....	129	10	7.8	99	76.7	
North Carolina.....	825	825	100.0	.....	Wood distillation, not including tur- pentine and rosin.....	2,721	242	8.9	899	25.7	
Ohio.....	4,673	1,456	31.2	18	0.4	Michigan.....	806	367	45.5	
Pennsylvania.....	6,656	2,532	38.0	.....	New York.....	593	125	21.1	169	28.5	
Virginia.....	912	194	21.3	.....	Pennsylvania.....	933	83	8.9	79	8.5	
Wisconsin.....	7,467	2,043	27.4	126	1.7	.....	.....	.....	.....	.....
Petroleum, refining.....	13,929	222	1.6	2,386	17.0	.....	.....	.....	.....	.....
California.....	930	22	2.4	285	30.6	.....	.....	.....	.....	.....
Illinois.....	312	5	1.6	112	35.9	.....	.....	.....	.....	.....
Kentucky.....	322	.....	.....	322	100.0	.....	.....	.....	.....	.....
New Jersey.....	2,906	68	2.3	478	16.4	.....	.....	.....	.....	.....
Pennsylvania.....	2,900	113	8.8	548	18.9	.....	.....	.....	.....	.....
Texas.....	1,281	.....	.....	495	38.6	.....	.....	.....	.....	.....

Prevailing hours of labor, by states, for all industries combined.—Table 6 shows, for all industries combined in each state and geographic division, the number of wage earners, classified according to the prevailing hours of labor in the establishments in which they were employed, together with corresponding percentages. As a convenient summary of this table, Table 7 is presented, which gives the percentages for broader groups.

It will be seen from Table 6 that in New England 61.3 per cent of all the wage earners were in establishments where the prevailing hours per week were more than 54 but less than 60. In a large proportion of the New England establishments the hours of labor are 10 per day, with a shorter working time on Saturdays. There is no other geographic division in which any such degree of concentration of employment at a given working time appears. In Rhode Island 81.6 per cent of the wage earners fell in this group.

Table 6 shows also that there are only a few states in which employment for 12 hours per day is at all common. In Colorado, however, 11.4 per cent of the wage earners were in establishments operating 72 or more hours per week; in Texas, 10 per cent; in Oklahoma, 9.3 per cent; in Louisiana, 8.4 per cent; in

Alabama, 7.1 per cent; in Utah, 6.8 per cent; in Tennessee, 6.7 per cent; and in Pennsylvania, 6.2 per cent. These comparatively high percentages are due largely to the importance in these states of industries which require continuous operation, such as the blast-furnace industry and steel works and rolling mills, or which have a long working day because of the comparatively short season of operation, such as the beet-sugar, cane sugar and molasses, and cottonseed oil and cake industries.

Among the individual states there were 32 in which the most common working time reported was 60 hours per week; that is, in which a larger number were employed in establishments with 60 hours per week as the prevailing hours of labor than in those of any of the other groups shown in Table 6. There were 11 states in which the most common working time reported was more than 54 but less than 60 hours, and 2 in which it was more than 60 but less than 72 hours, while in the District of Columbia, where manufacturing industries are unimportant, more than three-eighths of the employees were in establishments where the prevailing hours were 48 or less per week.

MANUFACTURES.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK AND PERCENTAGE WHICH WAGE EARNERS IN EACH GROUP FORM OF THE TOTAL NUMBER, BY GEOGRAPHIC DIVISIONS AND STATES: 1909.

[See explanatory note on Table 8.]

DIVISION AND STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—							PER CENT IN ESTABLISHMENTS WITH PREVAILING HOURS—							
		48 and under.	Be-tween 48 and 54.	54.	Be-tween 54 and 60.	60.	Be-tween 60 and 72.	72.	48 and under.	Be-tween 48 and 54.	54.	Be-tween 54 and 60.	60.	Be-tween 60 and 72.	72.	Over 72.
									7.9	7.3	15.4	30.2	30.5	5.2	1.8	1.7
United States...	6,615,046	523,652	481,157	1,019,438	1,989,307	2,017,280	344,011	116,083	114,118							
GEOGRAPHIC DIVISIONS:																
New England...	1,101,290	51,613	48,576	159,383	674,662	147,915	13,015	3,296	2,830	4.7	4.4	14.5	61.3	13.4	1.2	0.3
Middle Atlantic...	2,207,747	180,067	245,883	325,179	766,499	533,903	74,711	40,208	41,317	8.2	11.1	14.7	34.7	24.2	3.4	1.9
East North Central...	1,513,764	123,372	102,083	291,608	306,362	521,120	37,652	34,248	36,519	8.2	6.7	19.3	24.2	34.4	2.5	2.4
West North Central...	374,337	44,763	23,837	72,480	61,556	145,943	15,138	4,738	5,877	12.0	6.4	19.4	16.4	39.0	4.0	1.6
South Atlantic...	663,015	46,034	32,726	56,542	78,412	319,626	108,388	12,847	8,460	6.9	4.9	8.5	11.8	48.2	16.4	1.9
East South Central...	261,772	19,876	7,698	30,770	20,418	123,564	44,487	7,388	7,035	7.6	2.9	11.8	7.8	47.2	17.0	2.8
West South Central...	204,520	15,137	4,889	24,743	6,130	105,470	32,104	9,771	6,276	7.4	2.4	12.1	3.0	51.6	15.7	4.8
Mountain...	75,435	10,452	3,346	11,887	15,651	21,985	7,323	2,757	2,034	13.9	4.4	15.8	20.7	29.1	0.7	3.7
Pacific...	213,166	31,838	12,139	46,540	9,617	97,749	11,233	850	3,170	14.9	5.7	21.8	4.5	45.9	5.3	0.4
NEW ENGLAND:																
Maine...	79,955	4,409	4,378	7,483	15,310	41,696	5,032	1,163	484	5.5	5.5	9.4	19.1	52.1	6.8	1.5
New Hampshire...	78,658	3,516	1,991	3,936	57,935	10,087	847	276	70	4.5	2.5	5.0	73.7	12.8	1.1	0.4
Vermont...	33,788	4,898	1,080	4,000	11,302	11,879	466	98	65	14.5	3.2	11.8	33.4	35.2	1.4	0.3
Massachusetts...	584,559	29,424	28,555	103,114	380,223	35,887	4,599	1,230	1,467	5.0	4.9	17.6	65.0	6.1	0.8	0.3
Rhode Island...	113,538	2,672	1,484	7,001	92,597	9,388	163	30	203	2.4	1.3	6.2	81.6	8.3	0.1	(1)
Connecticut...	210,792	6,634	11,088	33,849	117,285	38,978	1,908	499	541	3.1	5.3	16.1	55.6	18.5	0.9	0.2
MIDDLE ATLANTIC:																
New York...	1,003,981	102,279	173,887	169,492	290,905	225,930	21,397	10,544	9,547	10.2	17.3	16.9	29.0	22.5	2.1	1.0
New Jersey...	326,223	16,189	25,713	45,861	173,701	49,716	7,611	2,461	4,971	5.0	7.9	14.1	53.2	15.2	2.3	0.8
Pennsylvania...	877,543	61,599	46,263	109,828	301,893	258,257	45,703	27,203	26,799	7.0	5.3	12.5	34.4	29.4	5.2	3.1
EAST NORTH CENTRAL:																
Ohio...	446,934	31,977	29,296	88,915	130,852	131,853	14,484	8,714	10,843	7.2	6.6	10.9	20.3	29.5	3.2	1.9
Indiana...	188,984	13,609	10,974	23,552	48,040	76,343	4,832	7,129	2,505	7.3	5.9	12.6	25.7	40.8	2.6	3.8
Illinois...	465,764	55,055	50,781	120,236	95,908	106,090	10,222	12,389	15,083	11.8	10.9	25.8	20.6	22.8	2.2	3.2
Michigan...	231,499	11,174	6,612	38,449	51,552	113,762	2,748	1,284	5,918	4.8	2.9	16.6	22.3	40.1	1.2	0.6
Wisconsin...	182,583	12,057	4,420	20,756	40,010	93,072	5,366	4,732	2,170	6.6	2.4	11.4	21.9	51.0	2.9	1.2
WEST NORTH CENTRAL:																
Minnesota...	84,787	7,745	6,452	12,751	14,206	40,103	1,680	1,269	558	9.1	7.6	15.0	16.8	47.3	2.0	0.7
Iowa...	61,635	6,594	2,034	8,972	11,125	27,049	3,946	504	1,411	10.7	3.3	14.6	18.0	43.9	6.4	2.3
Missouri...	152,993	23,276	10,671	36,711	28,934	46,446	3,350	1,737	1,868	15.2	7.0	24.0	18.9	30.4	2.2	1.2
North Dakota...	2,789	423	186	542	227	1,303	59	30	19	15.2	6.7	19.4	8.1	46.7	2.1	0.7
South Dakota...	3,602	516	82	746	40	1,932	131	39	116	14.3	2.3	20.7	1.1	53.6	3.6	1.1
Nebraska...	24,336	1,991	892	6,076	3,876	8,991	1,916	184	410	8.2	3.7	25.0	15.9	36.9	7.9	0.7
Kansas...	44,215	4,218	3,520	6,679	3,148	20,124	4,056	975	1,495	9.5	8.0	15.1	7.1	45.5	9.2	3.4
SOUTH ATLANTIC:																
Delaware...	21,288	960	736	6,905	5,855	5,824	514	371	73	4.5	3.5	32.5	27.6	27.4	1.7	0.3
Maryland...	107,921	6,166	13,229	16,274	21,601	41,574	6,103	1,974	1,000	5.7	12.3	15.1	20.0	38.5	5.7	1.8
District of Columbia...	7,707	2,944	782	1,558	254	1,117	949	45	58	38.2	10.1	20.2	3.3	14.5	12.3	0.6
Virginia...	105,676	5,415	4,752	6,607	18,934	55,820	9,473	1,208	3,467	5.1	4.5	6.3	17.9	52.8	9.0	1.1
West Virginia...	63,893	7,181	3,162	6,503	7,304	31,480	6,209	274	1,780	11.2	4.9	10.2	11.4	49.3	9.7	0.4
North Carolina...	121,473	1,648	1,447	3,741	14,018	47,974	49,844	2,672	141	1.4	1.2	3.1	11.5	39.5	41.0	2.1
South Carolina...	73,046	1,431	1,291	1,778	1,391	61,647	3,211	2,038	259	2.0	1.8	2.4	1.9	84.4	4.4	2.8
Georgia...	104,588	7,075	2,948	6,709	7,552	51,424	3,507	3,949	1,424	6.8	2.8	6.4	7.2	49.2	22.5	3.8
Florida...	57,473	13,214	4,379	6,467	1,505	22,766	8,568	316	258	23.0	7.6	2.6	39.6	14.9	0.5	0.4
EAST SOUTH CENTRAL:																
Kentucky...	65,400	9,420	3,364	10,472	9,180	28,692	1,027	1,232	1,413	14.4	5.1	16.0	14.0	43.9	2.5	1.6
Tennessee...	73,840	3,579	2,040	9,957	7,416	39,806	6,126	2,419	2,497	2.8	13.5	10.0	53.9	8.3	3.3	3.4
Alabama...	72,148	4,083	1,512	7,423	2,287	32,109	19,374	1,719	3,361	5.7	1.8	10.3	3.1	44.5	27.5	2.4
Mississippi...	50,384	2,794	982	2,924	1,555	22,957	16,810	1,998	364	5.5	1.9	5.8	3.1	45.6	33.4	4.0
WEST SOUTH CENTRAL:																
Arkansas...	44,982	1,249	1,320	3,401	1,039	34,931	1,556	1,166	320	2.8	2.9	7.6	2.3	77.7	3.5	2.6
Louisiana...	76,165	4,342	1,410	6,448	1,584	35,245	20,767	3,559	2,804	5.7	1.8	8.5	2.1	46.3	27.3	4.7
Oklahoma...	13,143	2,965	303	1,949	526	4,711	1,463	858	368	22.6	2.3	14.8	4.0	25.8	11.1	6.5
Texas...	70,230	6,575	1,850	12,945	2,981	30,583	8,318	4,188	2,784	9.4	2.6	18.4	4.2	43.5	11.8	6.0
MOUNTAIN:																
Montana...	11,655	1,007	154	3,285	4,195	1,966	422	12	14	13.8	1.3	28.2	36.0	16.9	3.6	0.1
Idaho...	8,220	637	70	1,195	79	5,419	355	63	402	7.7	0.9	14.5	1.0	65.9	4.3	0.8
Wyoming...	2,867	228	34	203	19	782	1,566	35	8.0	1.2	7.1	0.7	27.3	54.6	1.2	
Colorado...	28,067	4,587	1,787	3,463	3,588	8,211	3,213	2,108	1,020	16.3	6.4	12.3	12.8	29.3	11.4	7.8
New Mexico...	4,143	356	294	230	90	3,074	31	25	43	8.6	7.1	5.6	2.2	74.2	0.7	0.6
Arizona...	6,441	579	95	749	3,441	1,155	260	12	150	9.0	1.5	11.5	53.4	17.9	4.0	0.2
Utah...	11,785	2,093	874	2,072	3,545	1,182	1,216	406	397	17.8	7.4	17.6	30.1	10.0	10.3	3.4
Nevada...	2,257	365	38	690	694	106	260	6	8	16.2	1.7	30.6	30.7	8.7	11.5	0.3
PACIFIC:																
Washington...	69,120	5,677	1,725	7,988	1,619	48,781	2,653	270	409	8.2	2.5	11.6	2.3	70.6	3.8	0.4
Oregon...	28,750	3,396	762	3,880	1,030	17,861	1,485	194	142	11.8	2.6	13.5	3.6	62.1	5.2	0.7
California...	118,296	22,765	9,65													

PREVAILING HOURS OF LABOR.

315

Table 7

DIVISION AND STATE.	WAGE EARNERS IN MANUFACTURING INDUSTRIES: 1909			
	Total (average number).	Per cent in establish- ments where the pre- vailing hours were—		
		Under 54.	54 to 60 (inclus- ive).	Over 60.
United States.....	6,615,046	15.2	76.1	8.7
GEOGRAPHIC DIVISIONS:				
New England.....				
Middle Atlantic.....	1,101,290	9.1	89.2	1.8
East North Central.....	2,207,747	19.3	73.0	7.1
West North Central.....	1,513,764	14.9	77.9	7.2
South Atlantic.....	374,337	18.4	74.8	6.9
East South Central.....	663,015	11.8	65.5	19.6
West South Central.....	261,772	10.5	66.8	22.7
Mountain.....	204,520	9.8	72.7	23.6
Pacific.....	75,435	18.3	65.6	16.1
	213,166	20.6	72.2	7.2
NEW ENGLAND:				
Maine.....	79,955	11.0	80.6	8.4
New Hampshire.....	78,658	7.0	91.5	1.6
Vermont.....	33,788	17.7	80.4	1.9
Massachusetts.....	584,559	9.9	88.7	1.3
Rhode Island.....	113,538	3.7	96.1	0.3
Connecticut.....	210,792	8.4	90.2	1.4
MIDDLE ATLANTIC:				
New York.....	1,003,981	27.5	68.4	4.1
New Jersey.....	326,223	12.9	82.5	4.6
Pennsylvania.....	877,543	12.3	76.3	11.4
EAST NORTH CENTRAL:				
Ohio.....	446,934	13.8	78.7	7.5
Indiana.....	186,934	13.2	79.1	7.7
Illinois.....	465,764	22.7	69.2	8.1
Michigan.....	231,499	7.7	88.0	4.4
Wisconsin.....	182,583	9.0	84.3	6.7
WEST NORTH CENTRAL:				
Minnesota.....	84,767	16.7	79.1	4.2
Iowa.....	61,635	14.0	76.5	9.5
Missouri.....	152,993	22.2	73.3	4.5
North Dakota.....	2,789	21.9	74.2	3.9
South Dakota.....	3,602	16.6	75.4	7.9
Nebraska.....	24,336	11.9	77.8	10.3
Kansas.....	44,215	17.5	67.7	14.8
SOUTH ATLANTIC:				
Delaware.....	21,238	8.0	87.5	4.4
Maryland.....	107,921	18.0	73.6	8.4
District of Columbia.....	7,707	48.3	38.0	13.7
Virginia.....	105,676	9.6	77.0	13.4
West Virginia.....	63,893	16.1	70.9	12.9
North Carolina.....	121,473	2.6	54.1	43.3
South Carolina.....	73,046	3.8	88.7	7.6
Georgia.....	104,588	9.6	62.8	27.7
Florida.....	57,473	30.6	53.5	15.8
EAST SOUTH CENTRAL:				
Kentucky.....	65,400	19.5	73.9	6.6
Tennessee.....	73,840	7.6	77.4	15.0
Alabama.....	72,148	7.5	57.9	34.6
Mississippi.....	50,384	7.4	54.5	38.1
WEST SOUTH CENTRAL:				
Arkansas.....	44,982	5.7	87.6	6.8
Louisiana.....	76,165	7.5	56.9	35.7
Oklahoma.....	13,143	24.9	54.6	20.4
Texas.....	70,230	12.0	66.1	21.8
MOUNTAIN:				
Montana.....	11,655	15.1	81.1	3.8
Idaho.....	8,220	8.6	81.4	10.0
Wyoming.....	2,867	9.2	35.1	55.8
Colorado.....	28,067	22.7	64.4	22.8
New Mexico.....	4,143	15.7	82.0	2.3
Arizona.....	6,441	10.5	82.9	6.5
Utah.....	11,785	25.2	57.7	17.1
Nevada.....	2,287	17.9	70.0	12.2
PACIFIC:				
Washington.....	69,120	10.7	84.5	4.8
Oregon.....	28,750	14.4	79.2	6.4
California.....	115,296	28.1	63.1	8.8

Very considerable differences appear among the geographic divisions, and still greater differences among the states, with respect to the prevailing hours of labor in manufacturing industries. For example, in the Pacific division 14.9 per cent of all wage earners in 1909 were in establishments where the prevailing hours were 48 or less per week, in the Mountain division 13.9 per cent, and in the West North Central division 12 per cent, while in the New England division the percentage was only 4.7, and in the three southern divisions it was 6.9, 7.6, and 7.4, respectively. On the other hand, in the West South Central division, 23.6 per cent of the wage earners were in establishments where the prevailing hours exceeded 60 per week, in the East South Central division 22.7 per cent, and in the South Atlantic division 19.6 per cent, while in the Pacific division and in the four divisions of the North the percentages were very much lower, that for New England being only 1.8.

Confining attention to the percentages in Table 7, it will be seen that nearly one-half of the wage earners in the District of Columbia in 1909 were employed in establishments where the prevailing hours were less than 54 per week, while there were 9 states in which the proportion exceeded one-fifth, namely, Florida, California, New York, Utah, Oklahoma, Illinois, Colorado, Missouri, and North Dakota (named in the order of the magnitude of the percentages). Only 4 of the states named are of great importance in manufacturing. It may be noted that in New York a majority of the employees in this group worked more than 48 hours (see Table 6), while in the other states named the larger part of them worked 48 hours or less per week.

On the other hand, there were 9 states in 1909 in which 20 per cent or more of all the wage earners in manufacturing industries were employed in establishments where the prevailing hours exceeded 60 per week. These were Wyoming, North Carolina, Mississippi, Louisiana, Alabama, Georgia, Colorado, Texas, and Oklahoma (named in the order of the magnitude of the percentages). The great majority of the wage earners in this group worked more than 60 but less than 72 hours per week, presumably in most instances 11 hours per day.

MANUFACTURES.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, AND PERCENTAGE WHICH WAGE EARNERS IN EACH GROUP FORM OF THE TOTAL NUMBER, UNITED STATES, BY INDUSTRIES: 1909.

NOTE.—This table should not be understood as showing the actual number of wage earners who work the specified number of hours. All the wage earners in each establishment are classified according to the usual number of hours for the majority (generally all or nearly all) of the employees. In a considerable number of establishments there are some employees who work more, or fewer, hours than the employees generally.

Table 8

INDUSTRY.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS							PER CENT IN ESTABLISHMENTS WITH PREVAILING HOURS								
		48 and under.	Be- tween 48 and 54.	54.	Between 54 and 60.	60.	Be- tween 60 and 72.	72.	Over 72.	48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	72.	Over 72.
All industries.....	6,615,046	523,652	481,157	1,018,438	1,999,307	2,017,280	344,011	116,083	114,118	7.9	7.3	15.4	30.2	30.5	5.2	1.8	1.7
Agricultural implements.....	50,551	453	2,029	4,081	27,549	16,307	131	1	.....	0.9	4.0	8.1	54.5	32.3	0.3	(1)	.....
Artificial flowers and feathers and plumes.....	10,016	2,220	5,208	2,066	343	173	.....	.....	.....	22.2	52.0	20.6	3.4	1.7	.....	.....	.....
Artificial stone.....	9,957	1,125	344	2,437	908	5,119	1	13	.....	11.4	3.5	24.5	9.1	51.4	(1)	0.1	.....
Artists' materials.....	658	57	92	26	332	151	.....	.....	.....	8.7	14.0	4.0	50.5	22.9	.....	.....	.....
Automobiles, including bodies and parts.....	75,721	330	2,253	22,734	26,669	22,280	48	1,407	.....	0.4	3.0	30.0	35.2	20.4	0.1	1.9	.....
Awnings, tents, and sails.....	4,242	454	286	1,430	842	1,217	13	.....	.....	10.7	6.7	33.7	19.8	28.7	0.3	.....	.....
Axle grease.....	176	25	3	11	35	102	.....	.....	.....	14.2	1.7	6.2	19.9	58.0	.....	.....	.....
Babbitt metal and solder.....	897	52	42	56	451	296	.....	.....	.....	5.8	4.7	6.2	50.3	33.0	.....	.....	.....
Bags, other than paper.....	7,968	39	275	1,497	3,946	1,556	544	111	.....	0.5	3.5	18.8	49.5	19.5	6.8	1.4	.....
Bags, paper.....	3,212	53	186	237	1,618	1,118	.....	.....	.....	1.6	5.8	7.4	50.4	34.8	.....	.....	.....
Baking powders and yeast.....	2,155	194	206	328	1,093	264	70	.....	.....	9.0	9.6	15.2	50.7	12.2	3.2	0.6	0.2
Baskets, and rattan and willow ware.....	4,864	227	134	391	1,904	1,946	25	29	8	4.9	2.9	8.4	40.8	41.7	0.5	0.6	0.2
Beet sugar.....	7,204	.....	.....	.....	.....	1,762	.....	508	4,934	.....	.....	.....	.....	24.5	.....	7.1	68.5
Belting and hose, leather.....	3,006	134	330	593	1,466	483	.....	.....	177	4.5	11.0	19.7	48.8	16.1	.....	.....	2.8
Belting and hose, woven and rubber.....	6,319	6	49	64	5,018	1,005	.....	.....	.....	0.1	0.8	1.0	79.4	15.9	.....	.....	.....
Bicycles, motorcycles, and parts.....	4,437	12	11	1,262	1,473	1,677	2	.....	.....	0.3	0.2	28.4	33.2	37.8	(1)	.....	.....
Billiard tables and materials.....	1,495	284	42	1,034	53	82	.....	.....	19.0	2.8	69.2	3.5	5.5	.....	.....	.....	.....
Blacking and cleansing and polishing preparations.....	2,417	356	278	488	692	593	9	1	.....	14.7	11.5	20.2	28.6	24.5	0.4	(1)	.....
Bluing.....	313	95	14	71	107	26	.....	.....	30.4	4.5	22.7	34.2	8.3	.....	.....	7.5	27.2
Bone, carbon, and lamp black.....	228	.....	64	.....	43	42	.....	17	62	.....	28.1	.....	18.9	18.4	.....	.....	.....
Boots and shoes, including cut stock and findings.....	108,297	696	6,576	47,611	113,642	29,539	221	2	10	0.4	3.3	24.0	57.3	14.9	0.1	(1)	(1)
Boots and shoes, rubber.....	17,612	.....	.....	10,142	4,537	2,933	.....	.....	.....	57.6	25.8	16.7	.....	.....	.....	.....	.....
Boxes, cigar.....	6,115	390	458	1,442	2,277	1,548	.....	.....	.....	6.4	7.5	23.6	37.2	25.3	.....	.....	0.4
Boxes, fancy and paper.....	39,514	887	7,006	7,813	17,206	6,306	129	.....	167	2.2	17.7	19.8	43.5	16.0	0.3	.....	0.4
Brass and bronze products.....	40,618	458	1,256	6,397	22,802	9,542	132	31	.....	1.1	3.1	15.7	56.1	23.5	0.3	0.1	.....
Bread and other bakery products.....	100,216	6,373	3,089	18,640	11,227	49,955	6,807	2,502	1,623	0.4	3.1	18.6	11.2	49.8	6.8	2.5	1.6
Brick and tile.....	70,528	7,949	1,557	9,361	4,576	50,613	1,979	341	152	10.4	2.0	12.2	6.0	66.1	2.6	0.4	0.2
Brooms.....	5,199	504	582	656	1,358	2,072	24	3	.....	9.7	11.2	12.6	26.1	39.9	0.5	0.1	.....
Brushes.....	6,954	301	1,145	1,472	3,184	850	.....	2	.....	4.3	16.5	21.2	45.8	12.2	(1)	.....	.....
Butter, cheese, and condensed milk.....	18,431	1,793	228	1,020	1,254	6,379	6,825	313	619	9.7	1.2	5.5	6.8	34.6	37.0	1.7	3.4
Butter, reworking.....	295	8	1	79	.....	199	8	.....	.....	2.7	0.3	28.8	67.5	.....	2.7	.....	.....
Buttons.....	16,427	211	934	1,736	10,306	2,960	6	274	.....	1.3	5.7	10.6	62.7	18.0	(1)	.....	1.7
Calcium lights.....	15	9	6	6	37	410	.....	40.0	.....	0.0	3.3	13.7	6.9	76.1	4.8	3.5	0.7
Candles.....	539	.....	18	74	37	2	.....	.....	4.4	2.2	5.1	7.7	71.6	4.8	3.5	0.7	
Canning and preserving.....	59,968	2,632	1,311	3,077	4,641	42,908	2,904	2,071	424	4.6	7.0	16.7	31.4	39.7	0.6	0.1	(1)
Card cutting and designing.....	525	22	175	102	191	35	.....	.....	.....	4.2	33.3	19.4	36.4	6.7	.....	.....	.....
Carpets and rugs, other than rag.....	33,307	165	178	7,078	13,802	12,084	.....	.....	.....	0.5	0.5	21.2	41.4	36.3	.....	.....	.....
Carpets, rag.....	1,982	149	65	393	608	761	1	4	1	7.5	3.3	19.8	30.7	38.4	(1)	0.2	(1)
Carriages and sleds, children's.....	5,300	9	66	308	2,202	2,715	.....	.....	.....	0.2	1.2	5.8	41.5	51.2	.....	.....	.....
Carriages and wagons and materials.....	69,928	3,204	4,875	11,659	21,954	27,771	406	41	18	4.6	7.0	16.7	31.4	39.7	0.6	0.1	(1)
Cars and general shop construction and repairs by steam-railroad companies.....	282,174	21,131	22,230	100,363	56,850	43,977	31,743	.....	5,880	7.5	7.9	35.6	20.1	15.6	11.2	.....	2.1
Cars and general shop construction and repairs by street-railroad companies.....	22,418	220	510	4,803	4,992	7,845	3,689	74	285	1.0	2.3	21.4	22.3	35.0	16.5	0.3	1.3
Cars, steam-railroad, not including operations of railroad companies.....	43,086	3	711	12,111	14,235	14,585	1,416	12	13	(1)	1.6	28.1	33.0	33.9	3.3	(1)	(1)
Cars, street-railroad, not including operations of railroad companies.....	3,583	.....	.....	536	780	2,267	.....	.....	.....	.....	15.0	21.8	63.3	.....	.....	.....	.....
Cash registers and calculating machines.....	7,465	145	95	6,384	783	58	.....	.....	.....	1.9	1.3	85.5	10.5	0.8	.....	.....	.....
Cement.....	26,775	20	1	42	1,944	5,742	8,453	146	10,427	0.1	(1)	0.2	7.3	21.4	81.5	0.5	38.9
Charcoal.....	631	9	5	24	5	475	7	1	105	1.4	0.8	3.8	0.8	75.3	1.1	0.2	16.6
Chemicals.....	23,714	77	703	383	9,213	6,581	2,050	514	4,193	0.3	3.0	1.6	38.8	27.8	8.6	2.2	17.7
China decorating.....	328	53	133	36	88	18	.....	.....	.....	16.2	40.5	11.0	26.8	5.5	.....	.....	.....
Chocolate and cocoa products.....	2,826	1	165	43	1,921	696	.....	.....	.....	(1)	5.8	1.5	68.0	24.6	.....	.....	.....
Clocks and watches, including cases and materials.....	23,857	18	4,006	5,175	10,756	3,002	.....	.....	.....	0.1	20.6	21.7	45.1	12.6	.....	.....	.....
Cloth, sponging and refinishing.....	975	133	512	202	100	28	.....	.....	.....	13.6	52.5	20.7	10.3	2.9	.....	.....	.....
Clothing, horse.....	1,648	37	123	223	810	455	.....	.....	.....	2.2	7.5	13.5	49.2	27.6	.....	.....	.....
Clothing, men's, buttonholes.....	830	80	133	230	314	67	6	.....	.....	9.6	16.0	27.7	37.8	8.1	0.7	.....	.....
Clothing, men's, including shirts.....	230,696	30,138	35,057	56,884	94,624	22,245	573	59	16	12.6	14.9	23.5	39.5	9.3	0.2	(1)	(1)
Clothing, women's.....	153,743	7,418	67,512	37,081	33,138	7,620	852	82	40	4.8	43.9	24.1	21.6	5.0	0.6	0.1	(1)
Coffee and spice, roasting and grinding.....	7,490	659	1,294	1,509	2,548	1,462	16	2	.....	5.8	17.3	20.1	34.0	19.5	0.2	(1)	.....
Coffins, burial cases, and undertakers' goods.....	9,339	69	794	1,409	2,636	4,418	13	.....	.....	0.7	8.5	15.1	28.2	47.3	0.1	.....	.....
Coke.....	29,273	1,957	359	7,965	149	11,629	3,904	49	8,231	6.8	1.2	27.2	0.5	39.7	18.3	0.2	11.0
Confectionery.....	44,638	1,901	5,881	6,875	15,164	14,976	206	103	32	4.3	13.2	14.3	34.0	33.5	0.5	0.2	0.1
Cooperage and wooden goods, not elsewhere specified.....	26,269	2,614	1,674	3,392	5,230	13,306	30	19	4	10.0	6.4	12.9	19.9	50.7	0.1	0.1	(1)
Copper, tin, and sheet-iron products.....	73,615	14,226	2,761	10,297	24,468	21,133	481	1	248	19.3	3.8	14.0	33.2	28.7	0.7	(1)	0.3
Cordage and twine and jute and linen goods.....	25,520	138	208	2,505	16,279	6,023	667	.....	.....	0.5	0.8	9.7	63.0	23.3	2.6	.....	.....
Cordial and syrups.....	1,095	116	120	440	129	272	9	.....	.....						

PREVAILING HOURS OF LABOR.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, AND PERCENTAGE WHICH WAGE EARNERS IN EACH GROUP FORM OF THE TOTAL NUMBER, UNITED STATES, BY INDUSTRIES: 1909—Continued.

[See note at the head of this table.]

Table 8—Continued.

INDUSTRY.	Total wage earners (average number)	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—								PER CENT IN ESTABLISHMENTS WITH PREVAILING HOURS—							
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.	48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.
Cork, cutting.....	3,142	78	139	111	2,594	29	191	.....	.....	2.5	4.4	3.5	82.6	0.9	6.1	.....	.....
Corsets.....	17,564	291	2,727	4,714	9,357	475	.....	.....	.....	1.7	15.5	26.8	53.3	2.7	.....	.....	.....
Cotton goods, including cotton small wares.....	378,880	304	2,879	571	190,998	119,226	64,687	215	.....	0.1	0.8	0.1	50.4	31.5	17.1	0.1	.....
Crucibles.....	335	10	35	178	112	.....	.....	.....	.....	.....	3.0	10.4	53.1	33.4	.....	.....	.....
Cutlery and tools, not elsewhere specified.....	32,996	1,973	1,801	6,221	14,399	8,532	70	.....	.....	6.0	5.5	18.9	43.6	25.9	0.2	.....	.....
Dairymen's, poulterers', and apiarists' supplies.....	4,871	667	84	610	916	2,366	224	4	.....	13.7	1.7	12.5	18.8	48.6	4.6	0.1	.....
Dentists' materials.....	1,573	90	380	112	983	8	.....	.....	.....	5.7	24.2	7.1	62.5	0.5	.....	.....	.....
Drug grinding.....	922	26	6	515	98	216	61	.....	.....	2.8	.....	0.6	55.9	10.6	23.4	6.6	.....
Dyeing and finishing textiles.....	44,046	107	1,102	398	28,172	12,639	1,628	.....	.....	0.2	2.5	0.9	61.0	28.7	3.7	.....	.....
Dyestuffs and extracts.....	2,397	97	39	58	351	1,361	310	181	.....	4.0	1.6	2.4	14.6	66.8	12.9	7.6	.....
Electrical machinery, apparatus, and supplies.....	87,256	1,114	13,909	20,781	45,538	5,874	.....	34	6	1.3	15.9	23.8	52.2	6.7	.....	(1)	(1)
Electroplating.....	2,717	176	367	725	1,167	282	.....	.....	.....	6.5	13.5	26.7	43.0	10.4	.....	.....	.....
Emery and other abrasive wheels.....	1,943	4	36	216	1,377	310	.....	.....	.....	0.2	1.9	11.1	70.9	16.0	.....	.....	.....
Enameling and japanning.....	2,125	63	282	49	1,104	625	.....	.....	.....	3.0	13.3	2.3	52.0	29.4	.....	.....	.....
Engravers' materials.....	129	30	14	3	89	2	.....	.....	.....	23.3	10.9	2.3	62.0	1.6	.....	.....	.....
Engraving and diesinking.....	1,308	140	347	397	393	31	.....	.....	.....	10.7	26.5	30.4	30.0	2.4	.....	.....	.....
Engraving, wood.....	318	263	45	9	.....	1	.....	.....	.....	82.7	14.2	2.8	3.3	0.3	.....	.....	.....
Explosives.....	6,274	216	.....	373	205	5,344	136	.....	.....	3.4	.....	5.9	3.3	55.2	2.2	.....	.....
Fancy articles, not elsewhere specified.....	12,191	467	1,307	1,002	7,713	1,689	13	.....	.....	3.8	10.7	8.2	63.3	13.9	0.1	.....	.....
Fertilizers.....	18,310	51	22	332	806	14,502	1,408	931	258	0.3	0.1	1.8	4.4	70.2	7.7	5.1	1.4
Files.....	4,158	36	16	63	3,768	275	.....	.....	.....	0.9	0.4	1.5	90.6	6.6	.....	.....	.....
Firearms and ammunition.....	14,715	19	52	1,925	11,271	1,353	95	.....	.....	0.1	0.4	13.1	76.6	9.2	0.6	.....	.....
Fire extinguishers, chemical.....	195	20	8	90	69	8	.....	.....	.....	10.3	4.1	46.2	35.4	4.1	.....	.....	.....
Fireworks.....	1,403	163	276	268	127	532	36	1	.....	11.6	19.7	19.1	9.1	37.9	2.6	0.1	.....
Flags, banners, regalia, society badges and emblems.....	3,572	292	463	1,272	1,282	263	.....	.....	.....	8.2	13.0	35.6	35.9	7.4	.....	.....	.....
Flavoring extracts.....	1,228	271	216	283	216	231	12	.....	.....	22.1	17.6	23.0	17.6	18.8	1.0	.....	.....
Flax and hemp, dressed.....	164	52	.....	112	.....	.....	.....	.....	.....	31.7	.....	6.6	42.3	11.8	18.1	0.9	.....
Flour-mill and gristmill products.....	39,453	3,395	591	2,602	1,675	19,060	4,660	7,132	338	8.6	1.5	6.6	4.2	48.3	11.8	0.6	0.3
Food preparations.....	14,968	1,119	951	1,689	2,561	6,670	994	957	47	7.5	6.4	11.2	17.1	44.6	6.6	5.4	0.3
Foundry and machine-shop products.....	531,011	11,139	28,099	150,510	200,791	136,494	2,987	120	881	2.1	5.3	28.3	37.8	25.7	0.6	(1)	0.2
Foundry supplies.....	464	21	41	29	86	246	.....	41	.....	4.5	8.8	6.3	18.5	53.0	.....	8.8	.....
Fuel, manufactured.....	88	5	.....	17	755	57	9	.....	.....	5.7	.....	19.3	.....	64.8	10.2	.....	.....
Fur goods.....	11,927	926	5,323	4,427	755	489	4	.....	.....	7.8	44.6	37.1	6.4	4.1	(1)	.....	.....
Furnishing goods, men's.....	38,482	3,944	6,238	4,807	21,038	2,453	.....	2	.....	10.2	16.2	12.5	54.7	6.4	.....	(1)	.....
Furniture and refrigerators.....	128,452	5,707	5,243	16,368	28,872	72,012	223	27	.....	4.4	4.1	12.7	22.5	56.1	0.2	(1)	.....
Furs, dressed.....	1,241	51	191	103	502	394	.....	.....	.....	4.1	15.4	8.3	40.5	31.7	.....	0.4	.....
Galvanizing.....	1,147	1	2	48	880	393	5	118	.....	0.1	0.1	3.3	60.8	27.2	0.3	8.2	.....
Gas and electric fixtures and lamps and reflectors.....	18,861	922	2,789	4,997	7,194	2,768	191	.....	.....	4.9	14.8	26.5	38.1	14.7	1.0	.....	.....
Gas, illuminating and heating.....	37,215	474	21	1,049	2,716	5,806	5,786	2,890	18,473	1.3	0.1	2.8	7.3	15.6	15.5	7.8	49.6
Glass.....	68,911	11,358	16,003	8,707	13,923	10,764	3,423	668	3,463	16.5	24.1	12.6	20.2	15.6	5.0	1.0	5.0
Glass, cutting, staining, and ornamenting.....	9,362	1,166	1,903	1,123	4,629	505	.....	36	.....	12.5	20.3	12.0	49.4	5.4	.....	0.4	.....
Gloves and mittens, leather.....	11,254	555	1,017	917	7,743	1,122	.....	.....	.....	4.9	9.0	8.1	68.2	9.9	.....	.....	.....
Glucose and starch.....	4,773	70	4	16	.....	1,251	672	658	2,102	1.5	0.1	0.3	.....	26.2	14.1	13.8	44.0
Glue.....	3,265	54	88	75	416	2,114	222	259	37	1.7	2.7	2.3	12.7	64.7	6.8	7.9	1.1
Gold and silver, leaf and foil.....	1,383	187	345	28	772	51	.....	.....	.....	13.5	24.9	2.0	55.8	3.7	.....	.....	.....
Gold and silver, reducing and refining, not from the ore.....	456	17	30	25	285	95	4	.....	.....	3.7	6.6	5.5	62.5	20.8	0.9	.....	.....
Graphite and graphite refining.....	162	70	26	65	68	3	.....	.....	.....	16.0	40.1	42.0	.....	1.9	.....	.....	.....
Grease and tallow.....	4,357	139	339	282	421	2,286	682	47	161	3.2	7.8	6.5	52.5	15.6	1.1	3.7	.....
Grindstones.....	1,394	.....	113	94	1,187	.....	.....	.....	.....	.....	8.1	6.7	85.2	.....	.....	.....	.....
Haircloth.....	538	.....	291	247	.....	.....	.....	.....	.....	.....	.....	54.1	45.9	.....	.....	.....	.....
Hair work.....	3,534	562	1,181	1,524	104	121	42	.....	.....	15.9	33.4	43.1	2.9	3.4	1.2	.....	.....
Hammocks.....	272	29	17	1	197	28	.....	.....	.....	10.7	6.2	0.4	72.4	10.3	.....	.....	.....
Hand stamps and stencils and brands.....	1,651	171	418	527	390	142	.....	3	.....	10.4	25.3	31.9	23.6	8.6	.....	0.2	.....
Hat and cap materials.....	2,367	101	188	27	1,504	547	.....	.....	.....	4.3	7.9	1.1	63.5	23.1	.....	.....	.....
Hats and caps, other than felt, straw, and wool.....	6,201	238	2,116	1,385	1,863	574	25	.....	.....	3.8	34.1	22.3	30.0	9.3	0.4	.....	.....
Hats, fur-felt.....	25,064	2,182	7,955	5,163	8,957	773	4	.....	.....	8.7	31.9	20.6	35.7	3.1	(1)	.....	.....
Hats, straw.....	8,814	269	1,163	1,325	4,407	1,650	.....	.....	.....	3.1	13.2	15.0	50.0	18.7	.....	.....	.....
Hones and whetstones.....	152	2	.....	5	12	133	.....	.....	1.3	.....	3.3	7.9	87.5	.....	.....	.....	.....
Horseshoes, not made in steel works or rolling mills.....	293	3	7	49	198	36	.....	.....	.....	1.0	2.4	16.7	67.6	12.3	.....	.....	.....
Hosiery and knit goods.....	129,275	908	3,331	4,753	65,422	49,934	4,927	.....	.....	0.7	2.6	3.7	50.6	38.6	3.8	.....	.....
House-furnishing goods, not elsewhere specified.....	4,907	217	1,170	715	1,441	1,137	223	4	.....	4.4	23.8	14.6	29.4	23.2	4.5	0.1	52.3
Ice, manufactured.....	16,114	305	30	283	955	2,007	1,975	2,128	8,421	1.9	0.2	1.8	6.0	12.4	12.3	13.2	52.3
Ink, printing.....	1,121	160	201	159	436	165	.....	.....	.....	14.3	17.9	14.2	38.9	14.7	.....	.....	.....
Ink, writing.....	505	127	8	20	276	39	35	.....	.....	25.1	1.6	4.0	54.7	7.7	6.9	.....	.....
Instruments, professional and scientific.....	4,817	303	656	1,407	2,287	164	.....	.....	.....	6.3	13.6	29.2	47.5	3.4	.....	.....	.....
Iron and steel, blast furnaces.....	38,420	.....	190	1,149	4,057	1,304	31,729	.....	.....	.....	.....	.....	0.5	3.0	10.6	3.4	82.6
Iron and steel, steel works and rolling mills.....	240,076	18,233	4,094	23,932	29,022	82,130	30,247	49,364	2,954	7.6	1.7	10.0	12.1	34.2	12.6	20.6	1.2
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.....	11,345	52	137	1,286	4,349	5,521	.....	.....	.....	0.5	1.2	11.3	38.3	48.7	.....	.....	.....
Iron and steel, doors and shutters.....	1,601	431	10	762	334												

MANUFACTURES.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, AND PERCENTAGE WHICH WAGE EARNERS IN EACH GROUP FORM OF THE TOTAL NUMBER, UNITED STATES, BY INDUSTRIES: 1909—Continued.

[See note at the head of this table.]

INDUSTRY.	Total wage earners (average number)	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS								PER CENT IN ESTABLISHMENTS WITH PREVAILING HOURS							
		48 and under.	Be- tween 48 and 54.	54.	Between 54 and 60.	60.	Be- tween 60 and 72.	72.	Over 72.	48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	72.	Over 72.
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.	2,765	18	38	1,010	1,146	456	97	-----	-----	0.6	1.4	36.5	41.4	16.5	3.5	-----	-----
Iron and steel pipe, wrought.	6,817	6	40	306	566	5,809	90	-----	-----	0.1	0.6	4.5	8.3	85.2	1.3	-----	-----
Jewelry.	30,347	1,250	4,499	5,545	17,254	1,746	35	-----	18	4.1	14.8	18.3	56.9	5.8	0.1	0.1	0.1
Jewelry and instrument cases.	2,070	101	563	293	645	468	-----	-----	-----	2.7	14.2	31.2	22.6	-----	-----	-----	-----
Kaolin and ground earths.	1,990	13	48	127	260	1,408	79	32	23	0.7	2.4	6.4	13.1	70.8	4.0	1.6	1.1
Labels and tags.	2,313	258	555	663	819	18	-----	-----	-----	11.2	24.0	28.7	35.4	0.8	-----	-----	-----
Lapidary work.	627	328	161	121	16	1	-----	-----	-----	52.3	25.7	19.3	2.6	0.2	-----	-----	-----
Lard, refined, not made in slaughtering and meat-packing establishments.	399	2	-----	6	-----	889	2	-----	-----	0.5	-----	1.5	-----	97.5	0.5	-----	-----
Leats.	1,723	3	89	652	799	185	-----	-----	-----	0.2	5.2	37.7	46.2	10.7	-----	-----	-----
Lead, bar, pipe, and sheet.	802	7	5	180	251	359	-----	-----	-----	0.9	0.6	22.4	31.3	44.8	-----	-----	-----
Leather goods.	34,907	1,041	2,371	6,380	15,448	9,507	134	5	21	3.0	6.8	18.3	44.3	27.2	0.4	(1)	0.1
Leather, tanned, curried, and finished.	62,202	572	1,578	4,890	24,682	30,981	2	7	-----	0.9	2.5	7.0	39.7	49.8	(1)	(1)	-----
Lime.	13,897	114	156	818	1,295	8,573	1,381	415	1,145	0.8	1.1	5.9	9.3	61.7	9.9	3.0	8.2
Liquors, distilled.	6,430	739	129	822	206	3,253	424	755	42	11.5	2.0	12.8	4.1	50.6	6.6	11.7	0.7
Liquors, malt.	54,579	25,854	1,159	18,077	2,777	5,144	1,180	307	51	47.4	2.2	33.1	5.1	9.4	2.2	0.6	0.1
Liquors, vinous.	1,911	58	54	316	220	900	320	42	1	3.0	2.8	16.5	11.5	47.1	16.7	2.2	0.1
Locomotives, not made by railroad companies.	14,909	-----	-----	1,284	7,780	64	5,781	-----	-----	-----	8.6	52.2	0.4	38.8	-----	-----	-----
Looking-glass and picture frames.	6,021	329	443	1,078	1,921	2,246	2	2	-----	5.5	7.4	17.9	31.9	37.3	(1)	(1)	-----
Lumber and timber products.	695,019	23,315	17,418	41,713	49,986	469,292	90,983	1,981	331	3.4	2.5	6.0	7.2	67.5	13.1	0.3	(1)
Malt.	1,760	172	40	178	195	361	785	8	21	9.8	2.3	10.1	11.1	20.5	44.6	0.5	1.2
Marble and stone work.	65,603	27,490	4,885	9,317	10,732	12,121	904	125	29	41.9	7.4	14.2	16.4	18.5	1.4	0.2	(1)
Matches.	3,631	10	35	505	1,792	1,249	40	-----	-----	0.3	1.0	13.9	49.4	34.4	1.1	-----	-----
Mats and matting.	937	3	-----	-----	894	40	-----	-----	-----	0.3	-----	95.4	4.3	-----	-----	-----	-----
Mattresses and spring beds.	11,322	1,004	1,130	1,666	3,799	3,600	31	2	-----	8.9	10.0	14.7	33.6	32.6	0.3	(1)	-----
Millinery and lace goods.	39,201	3,461	14,220	9,372	10,651	1,466	31	-----	-----	8.8	36.3	23.9	27.2	3.7	0.1	-----	-----
Mineral and soda waters.	13,147	1,680	373	2,206	1,095	7,520	126	130	17	12.8	2.8	16.8	8.3	57.2	1.0	1.0	0.1
Mirrors.	2,904	69	893	598	793	641	-----	-----	-----	2.3	28.8	20.0	26.5	21.4	-----	-----	-----
Models and patterns, not including paper patterns.	4,171	235	1,096	1,172	1,167	501	-----	-----	-----	5.6	26.3	28.1	28.0	12.0	-----	-----	-----
Moving pictures.	506	212	187	19	88	124	142	-----	-----	41.9	37.0	3.8	17.4	-----	-----	-----	-----
Mucilage and paste.	538	59	108	105	-----	-----	-----	-----	-----	11.0	20.1	19.5	23.0	26.4	-----	-----	-----
Musical instruments and materials, not specified.	1,822	43	147	907	560	165	-----	-----	-----	2.4	8.1	49.8	30.7	9.1	-----	-----	-----
Musical instruments, pianos and organs and materials.	38,020	1,270	2,534	17,872	6,055	10,789	-----	-----	-----	3.3	6.7	45.7	15.9	28.4	-----	-----	-----
Needles, pins, and hooks and eyes.	4,638	24	35	428	1,815	2,341	96	-----	-----	0.5	0.8	9.1	39.1	50.5	-----	-----	-----
Oakum.	113	3	-----	14	-----	7	47	-----	-----	2.7	-----	12.4	-----	85.0	-----	-----	-----
Oil, castor.	54	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	13.0	-----	87.0	-----	-----	-----
Oil, cottonseed, and cake.	17,071	38	102	6	2	1,599	2,279	12,568	477	0.2	0.6	(1)	9.4	13.4	73.6	2.8	-----
Oil, essential.	290	12	13	41	9	172	15	27	1	4.1	4.5	14.1	3.1	59.3	5.2	9.3	0.3
Oil, linseed.	1,452	-----	-----	11	-----	424	146	616	255	-----	-----	0.8	29.2	10.1	42.4	17.6	-----
Oil, not elsewhere specified.	1,715	66	127	202	335	973	12	-----	-----	3.8	7.4	11.8	19.5	56.7	0.7	-----	-----
Oilcloth and linoleum.	5,201	14	16	370	2,074	2,727	-----	-----	-----	0.3	0.3	7.1	39.9	52.4	-----	-----	-----
Oleomargarine.	606	5	252	59	290	290	-----	-----	-----	0.8	41.6	-----	9.7	47.9	-----	-----	-----
Optical goods.	6,398	109	413	1,884	3,830	120	42	-----	-----	1.7	6.5	29.4	59.9	1.9	0.7	-----	-----
Paint and varnish.	14,240	656	2,332	2,601	4,681	3,440	67	297	166	4.6	16.4	18.3	32.9	24.1	0.5	2.1	1.2
Paper and wood pulp.	75,978	5,595	6,063	3,448	6,592	22,941	14,882	15,706	751	7.4	8.0	4.5	8.7	30.2	19.6	20.7	1.0
Paper goods, not elsewhere specified.	19,211	672	2,869	4,511	7,872	2,978	309	-----	-----	3.5	14.9	23.5	41.0	15.5	1.6	-----	-----
Paper patterns.	921	809	106	6	-----	-----	-----	-----	-----	87.8	11.5	0.7	-----	-----	-----	-----	-----
Patent medicines and compounds and druggists' preparations.	22,895	4,763	6,517	6,574	3,308	1,665	35	28	5	20.8	28.5	28.7	14.4	7.3	0.2	0.1	(1)
Paving materials.	1,419	213	-----	56	67	984	98	-----	1	15.0	-----	3.9	4.7	69.3	6.9	0.1	0.1
Peanuts, grading, roasting, cleaning, and shelling.	1,949	2	232	96	551	1,066	2	-----	-----	0.1	11.9	4.9	28.3	54.7	0.1	-----	-----
Pencils, lead.	4,134	-----	18	1,125	2,991	-----	-----	-----	-----	0.4	27.2	72.4	-----	-----	-----	-----	-----
Pens, fountain, stylographic, and gold.	1,225	57	150	483	522	18	-----	-----	-----	4.7	12.2	39.4	42.6	1.1	-----	-----	-----
Pens, steel.	699	130	-----	3	566	-----	-----	-----	-----	18.6	-----	0.4	81.0	-----	-----	-----	-----
Petroleum, refining.	13,929	43	-----	-----	8,670	61	1,894	673	2,366	0.3	-----	62.2	0.4	13.6	4.8	1.6	17.0
Phonographs and graphophones.	5,199	3	-----	2,375	2,820	1	-----	-----	-----	0.1	45.7	54.2	(1)	-----	-----	-----	-----
Photographic apparatus and materials.	5,195	113	243	3,959	751	129	-----	-----	-----	2.2	4.7	76.2	14.5	2.5	-----	-----	-----
Photo-engraving.	5,343	3,158	1,846	233	69	37	-----	-----	-----	59.1	34.5	4.4	1.3	0.7	-----	-----	-----
Pipes, tobacco.	2,775	46	1,817	280	576	55	1	-----	-----	1.7	65.5	10.1	20.8	2.0	(1)	-----	-----
Pottery, terra-cotta, and fire-clay products.	56,168	6,488	5,709	10,071	10,590	21,909	967	228	206	11.6	10.2	17.9	18.9	39.0	1.7	0.4	0.4
Printing and publishing.	258,434	138,850	41,510	47,320	19,124	10,911	483	194	37	53.7	16.1	18.3	7.4	4.2	0.2	0.1	(1)
Pulp goods.	783	62	-----	162	161	398	-----	-----	-----	7.9	-----	20.7	20.6	50.8	-----	-----	-----
Pumps, not including steam pumps.	2,136	38	115	423	1,150	410	314	526	371	15	1.8	5.4	19.8	53.8	19.2	-----	-----
Rice, cleaning and polishing.	1,239	12	-----	1	-----	566	647	1,107	8	312	1.0	-----	0.1	25.3	42.5	29.6	1.2
Roofing materials.	2,465	66	26	299	80	80	2,991	550	431	156	2.7	11.2	1	26.2	44.9	0.3	12.7
Rubber goods, not elsewhere specified.	26,521	163	1,201	5,413	14,481	5,256	5	2	-----	0.6	4.5	20.4	54.6	19.8	(1)	(1)	-----
Rules, ivory and wood.	109	1	8	19	79	2	-----	-----	-----	0.9	7.3	17.4	72.5	1.8	-----	-----	-----
Safes and vaults.	3,343	53	117	453	1,986	734	-----	-----	-----	1.6	3.5	13.6	59.4	22.0	-----	-----	-----
Salt.	4,936																

PREVAILING HOURS OF LABOR.

319

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, AND PERCENTAGE WHICH WAGE EARNERS IN EACH GROUP FORM OF THE TOTAL NUMBER, UNITED STATES, BY INDUSTRIES: 1909—Continued.

[See note at the head of this table.]

Table 8—Continued.

INDUSTRY.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—							PER CENT IN ESTABLISHMENTS WITH PREVAILING HOURS—								
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.	
Screws, machine.....	1,667	.....	185	383	637	462	.....	.....	11.1	23.0	38.2	27.7	.....	.....	.....	.....
Screws, wood.....	3,464	63	101	1,667	1,433	.....	.....	.....	1.8	2.9	53.9	41.4	.....	.....	.....	.....
Sewing machines, cases, and attachments.....	19,296	2	13	5,146	12,237	1,908	.....	.....	(1)	0.1	26.7	63.4	9.8	.....	.....	.....
Shipbuilding, including boat building.....	40,500	3,865	2,674	9,883	10,045	14,038	1	.....	9.5	6.6	24.4	24.8	31.7	(1)	.....	.....
Shoddy.....	2,041	5	28	5	387	1,320	268	2	26	0.2	1.4	0.2	19.0	64.7	13.1	0.1	
Show cases.....	3,390	90	279	773	575	1,668	5	.....	2.7	8.2	22.8	17.0	49.2	0.1	.....	.....
Signs and advertising novelties.....	5,540	1,112	1,597	1,212	1,359	200	.....	.....	20.1	28.8	21.9	24.5	4.7	.....	.....	.....
Silk and silk goods, including throwsters.....	99,037	106	2,320	2,323	81,407	12,881	.....	.....	0.1	2.3	2.3	82.2	13.0	.....	.....	.....
Silverware and plated ware.....	16,610	119	1,286	2,221	10,327	2,657	.....	.....	0.7	7.7	13.4	62.2	16.0	.....	.....	.....
Slaughtering and meat packing.....	89,728	4,903	4,138	10,504	4,275	64,776	638	378	116	5.5	4.6	11.7	4.8	72.2	0.7	0.4	
Smelting and refining, copper.....	15,628	203	.....	9,975	2,599	2,641	.....	210	1.3	.....	63.8	16.6	16.9	.....	1.3	.....
Smelting and refining, lead.....	7,424	25	.....	549	5,481	185	805	.....	378	0.3	.....	7.4	73.8	2.5	10.8	5.1
Smelting and refining, zinc.....	6,655	606	.....	1,471	1,123	2,885	.....	570	9.1	.....	22.1	16.9	43.4	8.6	.....	.....
Soap.....	12,999	635	1,786	1,998	3,849	4,706	23	2	.....	7.5	0.5	1.5	23.1	25.7	9.7	1.1
Soda-water apparatus.....	1,797	372	330	667	90	338	.....	.....	20.7	18.4	37.1	5.0	18.8	.....	.....	.....
Sporting and athletic goods.....	5,321	72	753	712	2,982	802	.....	.....	1.4	14.2	13.4	56.0	15.1	.....	.....	.....
Springs, steel, car and carriage.....	3,196	21	640	132	1,525	869	.....	.....	0.7	20.3	4.1	47.7	27.2	.....	.....	.....
Stationery goods, not elsewhere specified.....	6,206	216	718	1,780	3,414	78	.....	.....	3.5	11.6	28.7	55.0	1.3	.....	.....	.....
Statuary and art goods.....	1,699	683	140	405	99	372	.....	.....	40.2	8.2	23.8	5.8	21.9	.....	.....	.....
Steam packing.....	3,648	133	248	179	1,668	1,420	.....	.....	3.6	6.8	4.9	45.7	38.9	.....	.....	.....
Stereotyping and electrotyping.....	2,850	2,010	471	281	81	7	.....	.....	70.5	16.5	9.9	2.8	0.2	.....	.....	.....
Stoves and furnaces, including gas and oil stoves.....	37,130	2,261	2,407	7,895	10,434	14,065	63	.....	6.1	6.5	21.3	28.1	37.9	0.2	.....	.....
Sugar and molasses.....	4,127	99	.....	14	82	12	2,092	1,828	2.4	0.3	.....	2.0	0.3	50.7	44.3	.....
Sugar, refining, not including beet sugar.....	9,399	.....	.....	.....	4,557	1,882	2,217	743	.....	.....	48.5	20.0	23.6	7.9	.....	.....
Sulphuric, nitric, and mixed acids.....	2,252	.....	203	51	555	446	130	867	6.4	8.9	9.0	2.3	24.6	19.8	5.8	38.5
Surgical appliances and artificial limbs.....	4,241	272	379	856	2,293	441	.....	.....	13.6	.....	20.2	54.1	10.4	.....	.....	.....
Tin plate and terneplate.....	5,352	729	.....	2,841	1,503	279	.....	.....	.....	.....	53.1	28.1	5.2	.....	.....	.....
Tin foil.....	683	.....	33	34	539	77	.....	.....	4.7	9.4	5.0	78.9	11.3	.....	.....	.....
Tobacco manufactures.....	166,810	48,434	17,318	14,174	64,344	21,841	636	57	6	29.0	10.4	8.5	38.6	13.1	0.4	(1)	
Toys and games.....	5,305	424	527	338	2,815	1,200	1	.....	8.0	9.9	6.4	53.1	22.6	.....	(1)	.....
Turpentine and resin.....	39,511	14,786	2,647	1,022	280	19,607	997	172	37.4	6.7	2.6	0.7	49.6	2.5	0.4	.....
Type founding and printing materials.....	2,026	133	513	1,232	118	30	.....	.....	6.6	25.3	60.8	5.8	1.5	.....	.....	.....
Typewriters and supplies.....	9,578	208	442	2,811	5,569	548	.....	.....	2.2	4.6	28.3	58.1	5.7	.....	.....	.....
Umbrellas and canes.....	5,472	259	517	463	2,549	1,684	.....	.....	4.7	9.4	8.5	46.6	30.8	.....	.....	.....
Upholstering materials.....	4,067	108	554	183	1,277	128	.....	.....	2.7	13.6	4.0	31.4	45.2	3.1	.....	.....
Vault lights and ventilators.....	327	30	69	161	57	10	.....	.....	9.2	21.1	49.2	17.4	3.1	.....	.....	.....
Vinegar and cider.....	1,642	83	25	162	129	1,112	17	11	5.4	1.6	10.5	8.4	72.1	1.1	0.7	0.2	
Wall paper.....	4,037	1	12	.....	992	2,948	84	.....	(1)	0.3	.....	24.6	73.0	2.1	.....	.....
Wall plaster.....	4,791	155	16	219	146	3,856	121	278	3.2	0.3	4.6	3.0	80.5	2.5	5.8	.....
Washing machines and clothes wringers.....	1,835	22	57	94	405	1,257	.....	.....	1.2	3.1	5.1	22.1	68.5	.....	.....	.....
Waste.....	1,897	8	204	80	878	269	458	.....	0.4	10.8	4.2	46.3	14.2	24.1	.....	.....
Wheelbarrows.....	664	6	29	102	96	431	.....	.....	0.9	4.4	15.4	14.5	64.9	.....	.....	.....
Whips.....	1,546	11	67	25	1,176	267	.....	.....	0.7	4.3	1.6	76.1	17.3	.....	.....	.....
Windmills.....	2,337	1	1	658	1,054	623	.....	.....	(1)	(1)	28.2	45.1	26.7	.....	.....	.....
Window shades and fixtures.....	3,030	322	284	774	1,288	1,283	1	.....	8.2	7.2	19.7	32.2	32.6	.....	(1)	.....
Wire.....	18,084	76	1	7,626	10,232	149	.....	.....	3.5	0.4	(1)	42.2	55.6	0.8	.....	.....
Wirework, including wire rope and cable.....	12,348	150	481	1,684	5,951	3,895	187	.....	1.2	3.9	13.6	48.2	21.5	1.5	.....	.....
Wood carpet.....	184	94	77	4	9	.....	.....	51.1	41.8	2.2	.....	4.9	.....	.....	.....	.....
Wood distillation, not including turpentine and rosin.....	2,721	51	.....	42	6	1,023	658	242	699	1.9	.....	1.5	0.2	37.6	24.2	8.9
Wood preserving.....	2,403	439	18	294	134	1,248	213	8	40	18.3	0.7	12.2	5.6	51.9	8.9	0.3	
Wood, turned and carved.....	14,139	488	400	1,040	4,465	7,525	215	.....	3.5	2.8	7.4	31.6	53.2	1.5	(1)	.....
Wool pulling.....	631	13	.....	78	104	436	.....	.....	2.1	.....	12.4	16.5	69.1	.....	.....	.....
Wool scouring.....	1,142	.....	.....	10	699	433	.....	.....	.....	0.9	61.2	37.9	.....	.....	.....	.....
Woolen, worsted, and felt goods, and wool hats.....	168,722	423	1,092	1,102	119,728	45,300	1,075	2	0.2	0.6	0.7	71.0	26.8	0.6	(1)
All other industries.....	96	3	8	65	1	19	.....	.....	3.1	8.3	67.7	1.0	19.8	.....	.....	.....

¹ Less than one-tenth of 1 per cent.

MANUFACTURES.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909.

[See explanatory note on Table 8.]

Table 9

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72 and over.

AGRICULTURAL IMPLEMENTS.

United States....	50,551	453	2,029	4,081	27,549	16,307	131	1
California.....	622	2	—	584	—	20	16	—
Georgia.....	552	—	3	—	106	443	—	—
Illinois.....	19,240	—	—	386	13,684	5,077	113	—
Indiana.....	4,749	—	539	459	2,879	872	—	—
Iowa.....	1,318	—	—	86	493	739	—	—
Kentucky.....	551	—	—	53	—	498	—	—
Michigan.....	2,359	—	—	1,119	787	453	—	—
Minnesota.....	1,014	—	1	—	6	39	958	—
New York.....	5,717	20	—	—	132	3,549	2,016	—
Ohio.....	5,997	195	1,294	387	2,354	1,767	—	1
Pennsylvania.....	2,401	1	—	452	850	1,097	—	—
Tennessee.....	645	—	—	154	—	490	—	—
Wisconsin.....	2,704	—	—	—	1,906	798	—	—

ARTIFICIAL FLOWERS AND FEATHERS AND PLUMES.

United States....	10,016	2,226	5,208	2,066	343	173	—	—
New York.....	8,493	1,914	4,658	1,480	237	144	—	—
Pennsylvania.....	805	135	501	160	9	—	—	—

AUTOMOBILES, INCLUDING BODIES AND PARTS.

United States....	75,721	330	2,253	22,734	26,669	22,280	48	1,407
Connecticut.....	3,815	—	72	1,398	884	1,451	—	—
Illinois.....	2,382	46	250	994	303	713	16	—
Indiana.....	6,797	18	—	1,505	3,488	1,767	—	—
Massachusetts.....	4,138	3	232	2,645	1,242	16	—	—
Michigan.....	25,444	2	17	4,775	7,080	13,564	—	—
New Jersey.....	1,024	—	51	680	144	149	—	—
New York.....	9,861	86	1,525	4,068	2,248	1,932	—	2
Ohio.....	12,130	2	64	4,489	6,055	1,051	—	489
Pennsylvania.....	3,199	1	—	746	2,257	195	—	—
Wisconsin.....	4,295	4	—	273	2,121	988	—	915

BOOTS AND SHOES, INCLUDING CUT STOCK AND FINDINGS.

United States....	198,297	636	6,576	47,611	113,642	29,539	221	12
California.....	695	—	—	641	—	35	19	—
Connecticut.....	520	—	—	40	480	—	—	—
Illinois.....	5,792	6	57	573	3,956	1,100	—	—
Iowa.....	716	—	—	9	645	62	—	—
Maine.....	6,626	1	171	268	4,775	1,411	—	—
Maryland.....	594	1	67	4	120	402	—	—
Massachusetts.....	83,063	212	4,258	33,007	44,563	1,023	—	—
Michigan.....	2,455	6	11	1,674	572	192	—	—
Minnesota.....	2,664	—	4	8	1,732	920	—	—
Missouri.....	17,396	4	—	2,464	9,917	5,011	—	—
New Hampshire.....	14,211	—	12	136	12,459	1,604	—	—
New Jersey.....	4,232	14	12	71	3,080	455	—	—
New York.....	21,627	77	1,110	4,851	10,057	5,441	85	6
Ohio.....	16,026	190	305	2,068	9,106	3,817	—	—
Pennsylvania.....	10,822	21	462	514	8,568	1,140	—	117
Virginia.....	2,711	—	—	503	2,208	—	—	—
Wisconsin.....	5,431	3	28	430	1,458	3,512	—	—

BOOTS AND SHOES, RUBBER.

United States....	17,612	—	—	10,142	4,537	2,933	—	—
Connecticut.....	4,243	—	—	—	2,417	1,826	—	—
Massachusetts.....	6,928	—	—	6,928	—	—	—	—

BOXES, FANCY AND PAPER.

United States....	39,514	887	7,006	7,813	17,208	6,306	129	187
California.....	624	56	171	397	—	658	—	—
Connecticut.....	1,849	11	110	79	991	658	—	—
Illinois.....	4,085	72	1,412	893	1,348	281	79	—
Indiana.....	550	—	—	59	467	24	—	—
Maryland.....	684	—	49	218	238	179	—	—

WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72 and over.

BOXES, FANCY AND PAPER—Continued.

Massachusetts.....	3,838	—	28	594	938	2,278	—	—
Michigan.....	1,320	—	—	12	499	470	346	—
Minnesota.....	595	5	41	—	166	325	58	—
Missouri.....	1,113	52	120	348	408	95	30	—
New Jersey.....	2,142	62	162	851	1,007	60	—	—
New York.....	11,538	354	2,695	2,021	3,959	2,342	—	167
Ohio.....	2,530	112	430	—	339	1,208	441	—
Pennsylvania.....	4,604	56	456	286	2,952	854	—	—
Virginia.....	558	—	350	—	150	49	—	—
Wisconsin.....	824	—	17	411	76	320	—	—

BRASS AND BRONZE PRODUCTS.

United States....	40,618	453	1,256	6,397	22,802	9,542	132	31
Connecticut.....	16,817	24	198	323	13,441	2,831	—	—
Illinois.....	1,688	15	77	1,202	203	—	5	—
Massachusetts.....	1,791	40	55	492	664	—	—	—
Michigan.....	4,771	—	35	102	2,332	2,05	—	—
New Jersey.....	1,205	12	93	284	640	—	—	31
New York.....	6,651	230	487	2,049	1,701	2,184	—	—
Ohio.....	2,232	30	36	831	1,114	94	127	—
Pennsylvania.....	2,080	36	44	403	1,396	111	—	—
Wisconsin.....	1,289	3	—	28	838	420	—	—

BREAD AND OTHER BAKERY PRODUCTS.

United States....	100,316	6,373	3,089	18,640	11,227	49,955	6,807	4,125
Alabama.....	574	15	8	45	171	268	21	46
California.....	4,018	413	55	1,552	644	1,011	278	65
Colorado.....	889	88	1	83	178	605	21	13
Connecticut.....	1,869	188	80	206	80	1,238	46	31
District of Columbia.....	975	120	19	782	10	26	10	8
Illinois.....	8,611	673	609	4,243	711	1,821	376	178
Indiana.....	2,505	191	16	222	124	1,612	214	126
Iowa.....	1,647	37	6	182	184	1,028	89	71
Kansas.....	900	85	9	153	22	477	58	96
Kentucky.....	985	63	7	47	78	544	167	79
Louisiana.....	1,289	154	4	8	248	688	129	—
Maine.....	586	38	4	91	7	374	31	41
Maryland.....	1,962	73	315	161	273	836	148	156
Massachusetts.....	6,697	303	94	1,649	1,855	2,611	109	76
Michigan.....	2,637	128	120	702	195	1,211	201	80
Minnesota.....	1,696	121	4	202	26	1,255	76	12
Missouri.....	4,743	258	181	1,122	215	2,870	66	37
Nebraska.....	646	41	8	240	1	290	37	29
New Jersey.....	4,936	256	39	670	306	2,022	548	195
New York.....	21,357	1,133	694	2,886				

PREVAILING HOURS OF LABOR.

321

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	Between 54 and 60.	60.	Between 60 and 72.	72 and over.			48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72 and over.

BRICK AND TILE—Continued.

Minnesota.....	1,038	182	40	17	798	1									
Mississippi.....	939	35	27	850	15	12									
Missouri.....	2,999	17	5	42	26	2,814	33	62							
Nebraska.....	831	70	28	17	16	672	28								
New Jersey.....	3,405	160	137	564	270	2,274									
New York.....	8,080	1,467	121	1,449	258	4,667	49	69							
North Carolina.....	1,480	19	86	22	288	992	43	10							
Ohio.....	7,466	355	65	852	529	5,576	22	67							
Oklahoma.....	730	15	46	669											
Pennsylvania.....	8,058	562	383	791	1,206	5,084		32							
South Carolina.....	888	68	12	46	594	147	21								
Tennessee.....	1,281	28	27	43	51	1,017	26	89							
Texas.....	1,935	20	30	222	43	1,488	128	4							
Utah.....	514	253		91	9	161									
Virginia.....	2,090	137	60	49	195	1,633	10								
Washington.....	1,390	5	109	12	674	500									
West Virginia.....	882	90	3	60	32	697									
Wisconsin.....	1,027		20	18	38	911	40								

BUTTER, CHEESE, AND CONDENSED MILK.

United States....	18,431	1,793	228	1,020	1,254	6,379	6,825	932							
California.....	597	58	11	56	85	120	244	23							
Illinois.....	1,732	131	9	59	40	495	992	6							
Iowa.....	1,231	173	12	123	60	597	179	87							
Michigan.....	1,073	145	13	27	44	750	68	26							
Minnesota.....	1,184	245	4	114	40	692	43	46							
New York.....	2,866	169	63	98	398	608	1,436	94							
Ohio.....	1,067	64	9	27	58	401	470	38							
Pennsylvania.....	1,177	131	49	75	156	337	411	18							
Vermont.....	519	31	14	28	29	134	250	33							
Washington.....	735	31	87	87	16	181	415	5							
Wisconsin.....	2,863	251	22	68	192	766	1,103	461							

BUTTONS.

United States....	16,427	211	934	1,736	10,306	2,960	6	274							
Connecticut.....	1,057	1	184	19	387	466									
Illinois.....	548	13	140	45	169	181									
Iowa.....	3,172	19	9	432	1,804	634		274							
Massachusetts.....	659	4	58	58	597										
New Jersey.....	2,261	31	160	1,874	196										
New York.....	6,126	113	583	370	4,453	601	6								
Pennsylvania.....	1,123	4	110	915	94										

CANNING AND PRESERVING.

United States....	59,968	2,632	1,311	3,077	4,641	42,908	2,904	2,495							
California.....	7,757	332	53	428	147	6,083	514	200							
Colorado.....	518	48	24	3	436										
Delaware.....	1,369	45	10	12	42	1,097	133	30							
Illinois.....	2,383	61	153	74	276	1,672		147							
Indiana.....	3,406	211	55	39	616	2,485									
Iowa.....	1,247	69	11	4	1,061			102							
Kentucky.....	653	58	67	95	419	14									
Louisiana.....	974	24	13	2	517	317	101								
Maine.....	3,850	10	123	79	3,617	4	17								
Maryland.....	8,613	223	317	90	126	6,192	616	1,049							
Massachusetts.....	1,449	66	94	1,103	154	32									
Michigan.....	2,073	6	58	373	1,589	15	32								
Mississippi.....	347	11	125	32	531	98									
Missouri.....	952	217	23	23	30	651	8								
New Jersey.....	1,818	149	82	97	485	988	10	7							
New York.....	7,075	381	279	191	735	5,269	156	64							
Ohio.....	2,009	208	18	76	149	1,555									
Oregon.....	661	15	28	134	280	172	32								
Pennsylvania.....	2,753	9	7	23	832	1,806	73	3							
Virginia.....	1,860	80	82	34	43	1,542	18	60							
Washington.....	2,029	101	24	58	1,359	409	18								
Wisconsin.....	1,776	47	13	125	1,051	217	323								

CARPETS AND RUGS, OTHER THAN RAG.

United States....	33,307	165	178	7,078	13,802	12,084									
Massachusetts.....	5,954	45													
New Jersey.....	883	36	3												
Pennsylvania.....	11,510	120													

CARRIAGES AND WAGONS AND MATERIALS.

United States....	69,928	3,204	4,875	11,659	21,954	27,771	406	59							
Arkansas.....	973	10													
California.....	768	270	48	327											
Connecticut.....	578	6	6	288											
Georgia.....	1,059	50													
Illinois.....	5,852	114	82	1,133	3,077	1,442									
Indiana.....	8,867	108	850	997	4,447	2,375									
Iowa.....	1,441	49	157	237	63	765	120								
Kentucky.....	2,777	667	37	508	878	886	1								
Maryland.....	757	3	54	276	87	337									
Pennsylvania.....	1,539	18	408	704	1,241	2,066									

CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.

United States....	282,174	21,131	22,230	100,363	56,850	43,977	31,
-------------------	---------	--------	--------	---------	--------	--------	-----

MANUFACTURES

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.1]

Table 9 - Cont'd

STATE.	Total wage earners (aver- age num- ber).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		Be- tween 48 and under.	Be- tween 48 and 54.	Be- tween 54 and 60.	Be- tween 60. and 72.	Be- tween 60 and over.	72 and over.

CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES—Continued.

Virginia.....	7,588	1,719	823	848	2,198	308	311	1,381
Washington.....	2,716	.....	574	1,419	23	601	99	.....
West Virginia.....	5,652	.....	50	35	1,614	2,489	411	1,033
Wisconsin.....	8,994	.....	124	977	7,120	.....	268	409
Wyoming.....	1,690	.....	13	136	.....	.....	1,541	.....

**CARS AND GENERAL SHOP CONSTRUCTION AND
REPAIRS BY STREET-RAILROAD COMPANIES.**

United States....	22,418	220	510	4,803	4,892	7,846	3,689	359
California.....	1,902	36	291	1,187	311	49	28	
Connecticut.....	524	-----	-----	-----	146	340	38	
Illinois.....	2,240	17	-----	1,349	-----	408	454	12
Indiana.....	713	-----	-----	22	223	174	267	27
Maryland.....	538	-----	-----	8	446	28	58	
Massachusetts.....	1,708	-----	-----	319	605	352	348	84
Michigan.....	574	-----	-----	360	19	190	2	3
Missouri.....	905	-----	3	614	-----	271	2	15
New Jersey.....	826	-----	-----	2	585	132	92	
New York.....	4,480	-----	-----	84	1,400	2,362	608	26
Ohio.....	1,318	2	-----	50	331	381	550	
Pennsylvania.....	2,442	-----	-----	42	553	1,576	209	62

CARS, STEAM-RAILROAD, NOT INCLUDING OPERATIONS OF RAILROAD COMPANIES.

United States	43,086	3	711	12,111	14,235	14,585	1,416	25
Delaware	1,670			1,670				
Illinois	10,945	3	530	5,926	2,520	1,953		13
Indiana	4,084			458	410	3,216		
Kansas	527			172	298	57		
Massachusetts	616			320	257			
Missouri	3,665			358	877	2,418		12
New York	2,387			956		1,431		
Ohio	2,282			121	279	1,830	52	
Pennsylvania	7,766			60	286	5,504	500	1,416
Tennessee	1,104					362	742	

CEMENT.

United States....	26,775	20	1	42	1,944	5,742	8,453	10,573
California.....	2,407	1			212		1,986	208
Illinois.....	1,395			40				1,355
Indiana.....	2,318		1		183	1,246		883
Kansas.....	2,143					308	1,368	469
Michigan.....	1,306					88	294	974
Missouri.....	1,809				1,148		515	146
New Jersey.....	1,445					1,119		320
New York.....	1,442			2	298	498	360	285
Ohio.....	887		19			122		740
Pennsylvania.....	8,080					2,276	2,788	3,016

CHEMICALS.

United States	23,714	77	703	383	8,213	6,581	2,050	4,707
Illinois	836	10		14	38	180	487	107
Massachusetts	1,353	8	8	16	1,033	241	624	
Michigan	3,174			2	1,426	35	174	1,537
Missouri	619		374	7		210		28
New Jersey	5,046	6	20	90	2,804	992	198	986
New York	5,746	38	190	61	3,599	1,324	37	497
Ohio	1,132	2		3	164	586	13	364
Pennsylvania	3,185	5	98		68	2,130	177	707

CLOCKS AND WATCHES, INCLUDING CASES AND MATERIALS.

United States	23,857	18	4,906	5,175	10,756	3,002	—
Connecticut	5,851	—	—	3,862	1,306	1,183	—
Illinois	5,065	1	4,328	634	663	39	—
Massachusetts	3,989	1	117	196	3,675	—	—
New Jersey	2,192	—	372	—	1,622	135	—
New York	2,467	14	45	376	1,950	82	—
Ohio	1,456	—	—	25	173	1,258	—
Pennsylvania	1,395	—	36	3	1,366	—	—

**WAGE EARNERS IN ESTABLISHMENTS WITH
PREVAILING HOURS—**

STATE.	wage earners (aver- age num- ber).	Be- tween 48 and under.	Be- tween 48 and 54.	Be- tween 54 and 60.	Be- tween 60 and 72.	Be- tween 72 and over.
		48	54.	60.	72.	

CLOTHING, MEN'S, INCLUDING SHIRTS.

United States....	239,696	30,138	35,657	56,384	94,624	22,245	572	78
California.....	2,385	1,327	721	178	584	124	35	
Connecticut.....	751	28	11	61	584	47	20	
Georgia.....	1,242	724	18	129	248	123		
Illinois.....	36,152	6,043	4,503	13,619	10,400	1,587		
Indiana.....	4,073	980	189	353	2,502	49		
Iowa.....	1,480	170	257	422	529	102		
Kentucky.....	3,849	11	240	1,253	1,230	1,115		
Louisiana.....	817	196	417	137	-----	67		
Maine.....	1,068	6	64	509	416	73		
Maryland.....	19,784	368	4,965	4,776	5,340	4,324	10	1
Massachusetts.....	7,335	255	1,271	2,590	2,973	246		
Michigan.....	3,580	2,224	79	809	429	39		
Minnesota.....	2,156	149	272	642	1,040	53		
Missouri.....	7,994	2,174	3,024	2,180	503	113		
Nebraska.....	887	8	302	511	66	-----		
New Jersey.....	6,994	661	951	447	4,574	361		
New York.....	91,363	9,044	13,328	12,772	46,713	9,002	441	63
North Carolina.....	882	9	-----	50	79	744		
Ohio.....	9,950	1,300	2,023	5,428	1,090	109		
Oregon.....	544	538	-----	6	6			
Pennsylvania.....	23,623	570	2,204	6,323	11,508	2,440	67	i
Tennessee.....	1,596	103	205	423	551	314		
Texas.....	992	521	155	83	22	211		
Vermont.....	1,281	278	-----	3	948	52		
Virginia.....	1,160	288	45	10	680	137		
Wisconsin.....	4,252	884	89	1,706	1,251	322		

CLOTHING, WOMEN'S.

United States....	153,743	7,418	67,512	37,081	33,138	7,620	852	12
California.....	791	328	109	187	1	143	23	
Connecticut.....	1,382	2	678	16	681	5		
Illinois.....	6,151	649	3,256	1,563	594	89		
Indiana.....	1,291	12	109	576	529	65		
Iowa.....	876	36	6	76	586	172		
Maine.....	532	-----	192	27	205	108		
Maryland.....	2,641	311	383	742	782	423		
Massachusetts.....	5,813	542	2,671	949	1,610	41		
Michigan.....	2,194	114	823	1,161	48	48		
Missouri.....	2,750	134	956	1,158	482	40		
New Jersey.....	4,216	43	1,305	1,197	1,511	160		
New York.....	98,104	3,898	48,982	20,101	18,697	5,475	829	12
Ohio.....	8,843	456	1,146	5,242	1,952	47		
Pennsylvania.....	15,701	689	6,631	3,439	4,491	451		
Wisconsin.....	565	14	44	443	-----	64		

COKE.

United States....	29,273	1,987	359	7,965	149	11,629	3,904	3,28
Alabama.....	2,580	57	15	185		825	1,007	49
Colorado.....	893					893		
Pennsylvania.....	15,331	1,508		7,397	100	4,575	658	1,03
Virginia.....	1,425	4	306		33	766		31
West Virginia.....	4,426	21	38	316	16	3,966		6

CONFECTIONERY

United States	44,638	1,901	5,881	6,375	15,164	14,976	206	13
California	1,002	119	156	489	147	74	17	
Georgia	648	35	2	6	400	196		
Illinois	3,799	154	390	619	1,259	1,376	1	
Indiana	885	74	76	18	373	332	9	
Iowa	1,032	7		147	165	701	6	
Kentucky	685	7	34	114	448	69	18	
Maryland	1,573	111	9	288	467	637		6
Massachusetts	5,548	35	2,966	747	1,785	15		
Michigan	1,052	39	2	462	225	318	4	
Minnesota	715	4	4	47	159	501		
Missouri	1,882	289	123	432	237	799	2	
New Jersey	1,263	26	240	169	652	174		
New York	8,570	152	855	914	3,803	2,819	17	1
Ohio	2,493	322	342	280	280	1,266		
Pennsylvania	5,408	192	369	290	2,609	1,919	16	

PREVAILING HOURS OF LABOR.

323

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Be-tween 48 and 54.	54.	Be-tween 54 and 60.	60.	Be-tween 60 and 72.			48 and under.	Be-tween 48 and 54.	54.	Be-tween 54 and 60.	60.	Be-tween 60 and 72.
CONFECTIONERY—Continued.															
Tennessee.....	894	4	8	18	373	428	55								
Texas.....	717	22	2	64	72	545	12								
Utah.....	586	67	70	123	37	285	3								
Washington.....	612	34	22	207	221	124	3								
Wisconsin.....	1,780	5	.....	350	409	1,016	.....							
COOPERAGE AND WOODEN GOODS, NOT ELSEWHERE SPECIFIED.															
United States....	26,269	2,614	1,674	3,392	5,230	13,306	30	23							
Arkansas.....	504					504									
Illinois.....	2,388	109	212	335	1,001	731									
Indiana.....	891	220	41	172	38	369									
Kentucky.....	878	56	21	114	108	579									
Louisiana.....	906	402	13	137	32	322									10
Massachusetts.....	974	157	8	107	494	208									
Michigan.....	2,642	252	.....	27	17	2,348									
Minnesota.....	850	157	4	82	140	467									
Missouri.....	1,088	114	28	224	405	257									
New Hampshire.....	713	.....	1	342	370										
New Jersey.....	1,046	39	337	433	54	183									
New York.....	2,611	118	113	273	1,110	989	5	3							
Ohio.....	1,663	181	476	256	269	479	2								
Pennsylvania.....	1,630	245	132	432	352	469									
Tennessee.....	856	29	3	25	799										
Vermont.....	635	.....	23	.....	54	558									
Virginia.....	1,506	29	74	.....	67	1,391	2	3							
Wisconsin.....	1,208	219	6	75	137	771	.....	.....					
COPPER, TIN, AND SHEET-IRON PRODUCTS.															
United States....	73,615	14,226	2,761	10,297	24,468	21,133	481	249							
California.....	1,938	1,188	160	256	366	18									
Connecticut.....	2,475	189	51	293	411	386									
Georgia.....	619	16	64	139	15	376	9								
Illinois.....	7,473	1,506	129	1,144	3,138	1,473	85								
Indiana.....	2,121	227	74	220	506	1,094									
Iowa.....	585	92	19	116	20	398									
Louisiana.....	979	171	9	346	105	348									
Maryland.....	5,275	237	23	265	641	4,109									
Massachusetts.....	2,627	714	347	520	987	59									
Michigan.....	2,386	81	54	907	620	723	1								
Minnesota.....	1,081	463	118	143	268	89									
Missouri.....	2,637	593	128	443	600	613									
New Jersey.....	5,002	899	58	551	3,295	199									
New York.....	14,689	2,918	625	1,440	6,530	3,176									
Ohio.....	6,598	549	167	1,384	1,250	3,000									248
Pennsylvania.....	6,815	1,327	345	1,034	2,752	1,357									
Tennessee.....	572	129	90	96	2	255									
Texas.....	733	461	.....	107	.....	74	1								
Virginia.....	818	108	3	83	25	599									
Washington.....	583	470	7	43	48	20									
West Virginia.....	916	8	.....	67	248	593									
Wisconsin.....	2,780	318	.....	68	1,054	1,340									
CORDAGE AND TWINE AND JUTE AND LINEN GOODS.															
United States....	25,820	138	208	2,505	16,279	6,023	687	.....						
Illinois.....	1,799	.....	65	.....	1,570	164									
Kentucky.....	751	5	.....	1,347	5,268	5	17								
Massachusetts.....	6,690	52	1	.....	768										
Missouri.....	820	.....	52	.....	.....								
New Jersey.....	3,025	1	.....	301	2,671	52									
New York.....	5,652	.....	3	3,269	2,680										
Ohio.....	791	.....	.....	.....	687	154									
Pennsylvania.....	2,119	49	111	.....	1,110	849									
CORSETS.															
United States....	17,564	291	2,727	4,714	9,357	475	.....							
Connecticut.....	6,643	.....	1,476	.....	5,165	2									
Illinois.....	1,502	8	491	987	46										
Massachusetts.....	1,989	.....	101	33	1,855										
Michigan.....	2,461	7	42	1,990	299	123									
New Jersey.....	1,845	.....	178	237	1,122	308									
New York.....	2,436	192	364	1,441	436	3									
COTTON GOODS, INCLUDING COTTON SMALL WARES.															
United States....	378,880	304	2,879	571	190,698	119,226	64,687	215							
Alabama.....	12,731	.....	.....	.....	36	477	7,320	4,814	84						
Connecticut.....	14,350	.....	.....	.....	33	13,448	879								
Georgia.....	27,802	304	105	.....	.....	519	10,888	15,913	94						
Illinois.....	1,319	.....	887	.....	.....	96	336								
Indiana.....	1,582	.....	.....	.....	.....	38	1,544								
Kentucky.....	1,044	.....	.....	.....	.....	.....	558	186							
Maine.....	14,634	.....	.....	.....	.....	.....	1,118	13,516							
Maryland.....	3,966	.....	.....	.....	.....	.....	3,660								
Massachusetts.....	108,914	.....	.....	.....	11	41	106,766	38	58						
Mississippi.....	2,046	.....	.....	.....	.....	.....	118	1,434	1,093						
New Hampshire.....	22,290	.....	.....	.....	.....	.....	22,290								
New Jersey.....	6,638	.....	3	.....	.....	5,537	1,098								
New York.....	10,633	.....	247	17	.....	1,277	9,122								
North Carolina.....	47,231	.....	.....	.....	.....	52	7,499	39,680							
Pennsylvania.....	16,293	.....	1,112	.....	.....	8,294	6,687								
Rhode Island.....	28,780	.....	.....	.....	.....	34	28,658	94							
South Carolina.....	45,454	.....	45	.....	.....	.....	45,009								
Tennessee.....	3,078	.....	.....	.....	65	.....	1,333	1,643	37						
Texas.....	1,590	.....	.....	.....	.....	.....	397	1,193							
Vermont.....	683	.....	.....	.....	.....	21	602								
Virginia.....	5,057	.....	.....	.....	.....	.....	5,057								
CUTLERY AND TOOLS, NOT ELSEWHERE SPECIFIED.															
United States....	32,996	1,973	1,801	6,221	14,399	8,532	70	.....						
Connecticut.....	7,547	248	342	1,022	4,716	1,219									
Illinois.....	1,393	16	47	772	57	301									
Indiana.....	572	32	.....	143	93	304									
Massachusetts.....	6,747	177	298	2,820	2,543	909									
Michigan.....	668	.....	4	.....	4	259	406								
New Jersey.....	2,268	97	125	117	1,814	55									
New York.....	4,478	131	550	378	1,192	2,227									
Ohio.....	2,820	40													

MANUFACTURES.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.			48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.

FERTILIZERS.

United States....	18,310	51	22	332	806	14,502	1,408	1,189
Alabama.....	1,233	4	—	16	—	997	175	41
Florida.....	559	—	—	—	12	562	18	—
Georgia.....	2,770	4	7	7	159	2,146	87	360
Maryland.....	1,439	—	3	30	—	1,030	376	—
New Jersey.....	1,208	9	—	—	11	51	1,137	—
New York.....	908	11	—	—	—	1	578	258
North Carolina.....	933	—	—	2	70	636	36	139
Ohio.....	841	—	—	—	60	26	755	—
Pennsylvania.....	1,224	6	8	—	197	425	169	419
South Carolina.....	1,851	—	—	4	—	1,798	6	43
Tennessee.....	559	1	—	—	46	512	—	—
Virginia.....	1,956	4	3	14	103	1,405	255	107

FIREARMS AND AMMUNITION.

United States....	14,715	19	52	1,925	11,271	1,353	95	—
Connecticut.....	8,533	—	—	708	7,825	—	—	—
Massachusetts.....	2,327	1	—	—	892	984	450	—
New York.....	1,781	—	2	2	1,308	459	—	—
Ohio.....	813	—	48	48	700	17	—	—

FLOUR-MILL AND GRISTMILL PRODUCTS.

United States....	39,453	3,395	591	2,602	1,675	19,060	4,680	7,470
California.....	948	117	71	77	53	371	255	4
Illinois.....	2,464	310	50	24	19	1,229	331	501
Indiana.....	2,298	114	13	43	18	1,149	343	618
Iowa.....	647	36	6	22	1	403	99	80
Kansas.....	2,360	131	32	17	6	1,131	282	761
Kentucky.....	1,401	245	189	8	30	470	142	317
Maryland.....	506	16	1	1	16	229	57	186
Michigan.....	1,530	115	23	11	—	1,219	85	57
Minnesota.....	4,345	353	3	1,300	907	1,207	343	232
Missouri.....	2,198	119	6	32	6	949	368	718
Nebraska.....	839	11	14	6	6	447	236	119
New York.....	2,990	79	12	539	57	1,839	119	345
Ohio.....	2,585	207	53	56	66	1,571	378	254
Oklahoma.....	842	98	10	11	4	280	168	271
Pennsylvania.....	2,432	273	49	147	211	1,088	377	287
Tennessee.....	1,577	167	5	3	—	410	78	914
Texas.....	1,216	105	—	2	—	281	200	625
Virginia.....	1,014	83	12	18	13	510	71	307
Washington.....	644	45	—	45	17	333	27	177
Wisconsin.....	1,184	248	5	4	2	837	76	12

FOOD PREPARATIONS.

United States....	14,968	1,119	951	1,869	2,561	6,670	994	1,804
California.....	716	100	45	137	100	307	27	—
Illinois.....	1,350	198	156	170	196	619	—	11
Iowa.....	833	5	—	15	2	321	486	4
Michigan.....	1,303	5	17	34	17	834	—	286
New Jersey.....	838	50	16	151	413	199	9	—
New York.....	3,023	117	151	328	736	1,356	235	—
Ohio.....	1,020	27	14	128	135	221	12	483
Pennsylvania.....	1,185	237	16	103	209	512	8	—
Wisconsin.....	526	1	263	8	60	152	1	41

FOUNDRY AND MACHINE-SHOP PRODUCTS.

United States....	531,011	11,139	28,083	150,510	200,791	136,494	2,987	1,001
Alabama.....	5,898	82	86	1,033	572	4,108	17	—
California.....	8,377	1,326	2,774	2,586	1,218	414	59	—
Colorado.....	1,813	171	353	909	8	349	23	—
Connecticut.....	37,736	187	1,235	13,500	18,632	4,126	6	—
Delaware.....	2,210	180	110	1,145	724	44	—	—
District of Columbia.....	509	330	80	99	23	220	—	—
Florida.....	508	50	71	144	23	220	—	—
Georgia.....	2,892	5	308	40	706	1,742	—	—
Illinois.....	52,260	785	3,431	22,321	13,972	11,054	26	677
Indiana.....	15,809	386	1,412	2,129	5,658	6,222	1	1

FOUNDRY AND MACHINE-SHOP PRODUCTS—Continued.

Iowa.....	5,108	34	23	673	1,771	2,595	3	9
Kansas.....	2,110	12	9	620	275	1,171	23	—
Kentucky.....	4,479	9	364	1,692	742	1,653	18	1
Louisiana.....	1,314	14	1	796	72	423	—	8
Maine.....	2,885	9	8	774	1,047	447	—	—
Maryland.....	4,798	174	1,567	1,747	424	386	—	—
Massachusetts.....	44,179	310	1,259	11,059	29,735	1,747	69	—
Michigan.....	21,649	160	108	3,936	9,335	8,096	14	—
Minnesota.....	6,002	32	57	856	3,398	1,050	—	—
Mississippi.....	583	1	13	184	—	377	8	—
Missouri.....	7,443	200	561	4,661	664	1,357	—	—
Nebraska.....	1,020	9	74	116	130	680	—	1
New Hampshire.....	2,396	27	21	965	984	399	—	—
New Jersey.....	27,815	326	1,883	11,753	9,507	4,343	3	—
New York.....	64,066	2,001	7,087	23,002	15,091	16,665	160	—
North Carolina.....	1,490	6	6	118	234	1,123	3	—
Ohio.....	64,817	809	2,508	11,087	28,233	21,845	314	21
Oregon.....	1,055	36	122	802	17	78	—	—
Pennsylvania.....	86,821	2,038	1,442	22,360	31,874	26,079	2,157	273
Rhode Island.....	10,937	9	348	1,221	8,411	948	—	—
Tennessee.....	4,041	10	13	1,005	441	2,551	19	2
Texas.....	2,925	50	288	1,772	35	773	4	8
Vermont.....	1,860	—	—	881	719	260	—	—
Virginia.....	2,798	3	35	581	583	1,595	1	—
Washington.....	2,439	332	58	1,984	9	47	9	—
West Virginia.....	1,354	10	31	512	169	598	34	—
Wisconsin.....	24,219	44	295	511	14,549	8,816	4	—

FUR GOODS.

United States....	11,927	926	5,323	4,427	758	489	4	—
Michigan.....	619	—	37	388	133	66	—	—
Minnesota.....	1,056	146	610	254	2	44	—	—
New York.....	8,244	518	4,213	2,870	544	95	4	—

FURNISHING GOODS, MEN'S.

United States....	38,482	3,944	6,238	4,807	21,038	2,453	2	—
Connecticut.....	2,282	3	112	23	1,228	916	—	—
Illinois.....	2,583	1,140	655	120	741	32	—	—
Indiana.....	1,302	15	182	119	504	482	—	—
Massachusetts.....	4,260	488	194	384	8,194	—	—	—
New Jersey.....	2,458	25	618	1,748	67	—	—	—

<table border="

PREVAILING HOURS OF LABOR.

325

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	Between 54 and 60.	Between 60 and 72.	Between 72 and over.				48 and under.	Between 48 and 54.	Between 54 and 60.	Between 60 and 72.	Between 72 and over.	

GAS AND ELECTRIC FIXTURES AND LAMPS AND REFLECTORS.

United States.....	18,861	922	2,789	4,997	7,194	2,768	191							
California.....	553	246	23	284										
Connecticut.....	2,249	1	5	1	1,633	609								
Illinois.....	2,090	56	445	1,332	238	19								
Massachusetts.....	663	33	270	314	48									
New Jersey.....	1,884	33	118	310	1,380	4	39							
New York.....	6,017	87	1,453	1,702	1,906	864	5							
Ohio.....	1,437	39	201	452	462	136	147							
Pennsylvania.....	1,482	43	98	161	1,126	65								
Wisconsin.....	652	5		171	8	368								

GAS, ILLUMINATING AND HEATING.

United States.....	37,215	474	21	1,049	2,716	5,806	5,786	21,383						
California.....	1,666	127	7		965	4	533	30						
Connecticut.....	926	11		1	57	173	204	420						
Illinois.....	6,301	7		3	138	562	144	5,447						
Indiana.....	928	5			55	161	248	459						
Iowa.....	806	43	5	67	143	46	101	401						
Massachusetts.....	2,292	23			735	314	12	195	1,013					
Michigan.....	1,771	1		22	49	770	353	507						
Minnesota.....	843	15		4		9	7	813						
Missouri.....	941	4		1	6	13	71	846						
New Jersey.....	1,917	9		15		47	247	1,599						
New York.....	6,422	22		2	100	400	888	5,010						
Ohio.....	668	128	2		37	2	36	461						
Pennsylvania.....	3,119	16	3		24	1,780	705	591						
Texas.....	575	10		33	65	186	134	147						
Wisconsin.....	1,003	9		14	49	703	35	253						

GLASS.

United States.....	68,911	11,358	16,603	8,707	13,923	10,764	3,423	4,133						
California.....	640		100	540										
Illinois.....	3,507	94	957	80		676			1,700					
Indiana.....	9,544	1,850	2,109	1,978	1,575	1,584	448							
Kansas.....	1,435	831	126	166	89	273								
Maryland.....	1,052	181	482	389										
Missouri.....	1,755		102		224		1,066	363						
New Jersey.....	5,651	1,007	2,451	420	1,773									
New York.....	3,114	369	776	280	328	1,361								
Ohio.....	10,159	1,797	2,279	1,726	2,501	1,139	652	65						
Pennsylvania.....	23,710	3,049	4,406	1,645	6,235	5,468	1,257	1,650						
Virginia.....	524		265	59										
West Virginia.....	6,190	1,806	2,252	1,424	385	263								

GLOVES AND MITTENS, LEATHER.

United States.....	11,354	555	1,017	917	7,743	1,122								
California.....	570	188	340	42										
Illinois.....	1,309	134	99	356	679	41								
New York.....	6,287	115	241	193	5,490	248								
Wisconsin.....	1,042	53	64	188	875	462								

HATS, FUR-FELT.

United States.....	25,064	2,182	7,985	5,163	8,957	773	4							
Connecticut.....	5,217	588	3,016	22	1,468	123								
Massachusetts.....	2,224	83		20	2,121									
New Jersey.....	4,657	619	3,295	108	366	269								
New York.....	5,013	672	1,060	36	3,236	9								
Pennsylvania.....	7,230	65	370	4,919	1,533	333								

HOSIERY AND KNIT GOODS.

United States.....	129,275	908	3,331	4,753	65,422	49,934	4,927							
Alabama.....	611					493	118							
Connecticut.....	3,340	2		441	2,622	275								
Georgia.....	2,743		83	553	78	1,320	879							
Illinois.....	2,913	83	553											
Indiana.....	1,933					1,090	243							

HOSIERY AND KNIT GOODS—Continued.

Maryland.....	1,022													
Massachusetts.....	9,941	12	245											
Michigan.....	2,545	8	308											
Minnesota.....	1,032													
New Hampshire.....	3,129													
New Jersey.....	2,506	24	109	107	2,140	126								
New York.....	35,950	427	1,312	454	7,945	24,934	878							
North Carolina.....	5,151													
Ohio.....	3,149	10	45	921	1,019	1,134								
Pennsylvania.....	38,206	275	381	496	24,508	12,472	74							
Rhode Island.....	1,774													
South Carolina.....	839													
Tennessee.....	3,117													
Vermont.....	946													
Virginia.....	1,715													
Wisconsin.....	4,282	24	96	920	2,570	366								

ICE, MANUFACTURED.

United States.....	16,114	305	30	283	965	2,097	1,975	10,549						
California.....	646	32				26	102	25	131	117				
Illinois.....	804	3				2	242	64	139	334				
Indiana.....	563	4					8	45	70	456				
Kansas.....	593	10					1	65	140	377				
Louisiana.....	632</													

MANUFACTURES.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.	
JEWELRY.								
United States....	30,347	1,250	4,499	5,545	17,254	1,746	35	18
California.....	574	35	80	379	25	12	25	18
Illinois.....	990	20	309	419	231	11		
Massachusetts.....	7,423	54	215	234	6,755	105		
New Jersey.....	4,008	157	464	1,052	1,582	153		
New York.....	5,379	282	2,943	1,376	728	50		
Rhode Island.....	9,511	573	53	107	7,500	1,218		

JEWELRY.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.	
LEATHER GOODS.								
United States....	34,907	1,041	2,371	6,380	15,448	9,507	134	26
California....	710	36	68	584	5	17		
Georgia....	683			33	159	488	3	
Illinois....	2,949	107	155	1,091	1,218	300	78	
Indiana....	1,240	5	6	15	652	553	7	2
Iowa....	600	4	6	16	406	108		
Kentucky....	814	2		96	379	326	2	
Massachusetts....	1,710	31	288	463	602	326		
Michigan....	834			43	276	515		
Minnesota....	870	40	516	8	240	66		
Missouri....	1,814	6	34	275	1,043	455	1	
New Jersey....	1,813	188	83	44	1,303	195		
New York....	7,586	179	788	1,019	4,245	1,324	9	22
Ohio....	1,890	24	24	465	861	515	1	
Pennsylvania....	2,524	22	199	392	1,123	780	8	
Tennessee....	604	8	8	99	180	309		
Texas....	721	6	1	32	382	300		
Virginia....	1,487	188	5	218	50	1,026		
Wisconsin....	2,099	25	73	321	1,082	504	4	

LEATHER GOODS.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.	
LEATHER, TANNED, CURRIED, AND FINISHED.								
United States....	62,202	572	1,578	4,380	24,682	30,981	2	7
California....	1,398	2	67	1,193	116	20		
Delaware....	3,045		83	620	250	2,092		
Illinois....	3,001		313	57	1,197	1,434		
Kentucky....	630		163	199	54	214		
Massachusetts....	10,252	155	108	120	8,292	1,577		
Michigan....	2,291			519	1,772			
New Jersey....	5,560	180	245	115	4,578	442		
New York....	5,688	18	226	211	2,470	2,763		
North Carolina....	832		1	1	8	820	2	
Ohio....	1,884	95	1	815	367	606		
Pennsylvania....	14,008	65	139	708	5,187	7,904		5
Virginia....	1,590	1	49	1	31	1,506		2
West Virginia....	1,571		1	68	128	1,374		
Wisconsin....	7,548			13	717	6,818		

LIME.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.	
LIME.								
United States....	13,897	114	156	818	1,295	8,573	1,381	1,560
Illinois....	511			116	39	309		47
Maine....	526	4			174	21	327	
Massachusetts....	557			4	110	199		87
Missouri....	692	4	57		530	14		
Ohio....	1,273	1	10	115	27	865	48	207
Pennsylvania....	3,258	5	75	135	515	2,010	425	93
Virginia....	716			23	9	329	229	126
West Virginia....	514		1		513			
Wisconsin....	776	1		9	15	626	120	5

LIQUORS, MALT.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.	
LIQUORS, MALT.								
United States....	54,579	25,854	1,189	18,077	2,777	5,144	1,180	358
California....	1,296	1,215		21	41	10	3	6
Illinois....	4,398	3,127	40	714	310	169	7	31
Indiana....	1,594	96		1,046	259	146	27	
Kentucky....	1,012	669		171	80		86	
Louisiana....	512	224		181	107			
Maryland....	909	316	185	384		24		
Massachusetts....	1,739	305	35	1,392	7			113
Michigan....	1,527	605	8	376		423		
Minnesota....	1,653	617		438	206	392		

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.
LIQUORS, MALT—Continued.							

LIQUORS, MALT—Continued.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.
LOCOMOTIVES, NOT MADE BY RAILROAD COMPANIES.							

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.
LOCOMOTIVES, NOT MADE BY RAILROAD COMPANIES.							

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.
LUMBER AND TIMBER PRODUCTS.							

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.
LUMBER AND TIMBER PRODUCTS.							

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.
LUMBER AND TIMBER PRODUCTS.							

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—					
		48 and under.	Between 48 and 54.	54.	Between 54 and 60.	Between 60 and 72.	72 and over.

PREVAILING HOURS OF LABOR.

327

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—																
		Be-tween 48 and 49 under.		Be-tween 50 and 54 and 60.		Be-tween 60 and 69 and 72.				Be-tween 48 and 49 under.		Be-tween 50 and 54 and 60.		Be-tween 60 and 69 and 72.												
		48	under.	49	and	54	and	60.	and	69	and	72.	and	over.	48	under.	49	and	54	and	60.	and	69	and	72.	and	over.
MARBLE AND STONE WORK—Continued.																										
Minnesota.....	1,738	714	...	149	326	549	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Missouri.....	1,342	320	26	410	41	540	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Hampshire.....	1,527	1,474	...	46	4	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Jersey.....	1,479	1,068	41	145	163	62	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New York.....	6,939	4,377	256	599	684	1,004	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Carolina.....	807	118	319	220	74	76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ohio.....	2,012	341	61	478	19	1,001	44	68	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pennsylvania.....	9,264	1,896	2,032	1,870	2,188	1,252	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rhode Island.....	660	618	13	28	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tennessee.....	1,006	80	6	188	23	434	246	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Texas.....	605	333	59	110	37	66	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vermont.....	10,411	3,973	213	638	5,246	341	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Virginia.....	1,585	107	142	144	273	464	454	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wisconsin.....	2,593	468	496	903	40	678	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MATTRESSES AND SPRING BEDS.																										
United States....	11,322	1,004	1,130	1,686	3,799	3,690	31	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
California.....	528	249	75	204	240	266	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Illinois.....	831	45	73	207	240	266	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Indiana.....	553	12	211	26	112	192	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Massachusetts.....	667	73	90	151	289	64	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New York.....	1,621	65	167	252	662	421	22	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ohio.....	961	59	205	68	451	178	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pennsylvania.....	745	52	63	70	442	118	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wisconsin.....	504	61	...	...	127	316	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MILLINERY AND LACE GOODS.																										
United States....	39,201	3,461	14,220	9,372	10,851	1,466	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Illinois.....	3,328	557	1,348	688	626	109	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Massachusetts.....	1,686	311	663	169	543	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Missouri.....	934	191	30	524	...	189	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Jersey.....	4,120	114	65	523	2,904	483	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New York.....	21,078	1,471	10,562	4,786	3,970	289	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ohio.....	1,357	432	469	346	346	102	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pennsylvania.....	4,235	209	747	1,190	2,057	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MINERAL AND SODA WATERS.																										
United States....	13,147	1,680	373	2,206	1,095	7,520	126	147	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Georgia.....	545	57	25	32	28	382	7	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Illinois.....	885	245	18	262	47	305	5	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Massachusetts.....	525	41	7	145	108	224	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Jersey.....	608	43	14	134	26	375	12	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New York.....	2,462	166	147	338	491	1,286	28	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pennsylvania.....	968	72	38	113	114	601	16	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MUSICAL INSTRUMENTS, PIANOS AND ORGANS AND MATERIALS.																										
United States....	38,020	1,270	2,534	17,372	6,055	10,789	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Connecticut.....	2,304	...	...	750	356	1,198	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Illinois.....	8,777	121	564	4,604	842	2,640	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Indiana.....	1,667	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maryland.....	757	2	400	208	147	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Massachusetts.....	4,245	700	420	2,855	195	75	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Michigan.....	1,779	1	51	1,106	621	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Jersey.....	1,393	64	5	978	345	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New York.....	11,938	364	1,481	6,967	649	2,477	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ohio.....	1,841	3	219	782	837	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pennsylvania.....	1,182	32	395	492	263	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vermont.....	610	...	...	4	340	266	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
OIL, COTTONSEED, AND CAKE.																										
United States....	17,071	38	102	6	2	1,599	2,279	13,045	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Alabama.....	1,618	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Arkansas.....	1,086	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Georgia.....	2,888	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Louisiana.....	894	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mississippi.....	2,503	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Carolina.....	1,165	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oklahoma.....	581	...																								

MANUFACTURES.

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—							STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS—						
		48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	72 and over.			48 and under.	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Be- tween 60 and 72.	72 and over.
POTTERY, TERRA-COTTA, AND FIRE-CLAY PRODUCTS.																	
United States....	56,168	6,488	5,709	10,071	10,590	21,909	967	434									
California.....	1,027	18	660	250	99												
Georgia.....	592	3	87	270	232												
Illinois.....	3,157	613	2	141	1,185	1,216											
Indiana.....	2,186	142	512	560	972												
Kentucky.....	1,319	378	68	299	574												
Maryland.....	720	837	101	20	262												
Missouri.....	3,138	65	241	1,706	1,126												
New Jersey.....	9,815	652	1,908	1,445	3,028	2,719											
New York.....	2,367	234	423	570	617	451	72										
Ohio.....	16,519	2,143	2,660	3,838	1,058	6,703	117										
Pennsylvania.....	9,003	579	404	1,739	1,464	4,389	66	362									
West Virginia.....	2,034	1,201	217	420	33	163											
PRINTING AND PUBLISHING.																	
United States....	258,434	138,850	41,510	47,320	19,124	10,911	488	231									
Alabama.....	1,117	447	32	351	99	188											
Arkansas.....	981	419	49	182	87	237	3	4									
California.....	7,556	5,485	1,038	778	119	119	17										
Colorado.....	2,366	1,759	77	173	308	39	10										
Connecticut.....	2,878	1,372	659	474	340	27											
District of Columbia.....	1,565	1,250	161	61	83	1											
Florida.....	905	408	39	314	93	43	7	1									
Georgia.....	2,395	793	226	664	802	390		20									
Illinois.....	23,644	18,064	4,496	3,983	1,293	629	57	122									
Indiana.....	6,756	3,912	500	1,002	228	706	3	5									
Iowa.....	4,853	1,720	560	1,282	508	719	3	1									
Kansas.....	3,232	1,264	184	720	608	442	8	6									
Kentucky.....	3,135	1,074	804	779	180	233	5	10									
Louisiana.....	1,544	773	195	356	119	91	1	9									
Maine.....	1,651	573	142	690	208	38											
Maryland.....	3,386	1,170	1,082	679	240	215											
Massachusetts.....	17,532	11,404	1,853	2,911	1,342	20		2									
Michigan.....	7,219	2,718	833	2,334	833	500	1										
Minnesota.....	5,641	1,905	2,106	863	395	210	162										
Mississippi.....	736	337	7	117	24	247	3	1									
Missouri.....	10,790	6,457	974	1,883	856	614	5	1									
Montana.....	691	339	5	177	164	6											
Nebraska.....	2,329	971	173	792	118	255	1	11									
New Hampshire.....	677	180	76	132	205	84											
New Jersey.....	5,451	3,251	1,141	640	315	79	25										
New York.....	63,120	34,754	15,083	8,512	4,081	670	18	2									
North Carolina.....	1,376	527	70	308	137	297	37										
North Dakota.....	788	377	46	268	58	38											
Ohio.....	15,756	6,888	1,951	4,670	1,485	744	18										
Oklahoma.....	1,698	1,122	58	323	32	163											
Oregon.....	1,459	1,188	81	166	7	13	4										
Pennsylvania.....	24,696	14,412	3,297	4,267	1,965	730	25										
Rhode Island.....	1,454	529	525	98	278	21	3										
South Carolina.....	834	336	122	126	34	196	7	13									
South Dakota.....	825	207	73	447	7	91											
Tennessee.....	2,914	1,149	386	782	262	335											
Texas.....	4,408	2,191	608	759	320	497	29	4									
Utah.....	987	438	253	69	198	7	2										
Vermont.....	600	181	61	317	61	46											
Virginia.....	2,555	726	341	1,105	178	197	6	2									
Washington.....	2,624	1,878	294	324	37	86	2	3									
West Virginia.....	1,255	601	35	479	41	99											
Wisconsin.....	5,360	2,19	744	1,613	333	415	22	14									
RUBBER GOODS, NOT ELSEWHERE SPECIFIED.																	
United States....	26,521	183	1,201	5,413	14,481	5,256	5	2									
Connecticut.....	2,115	131	—	1,767	217												
Indiana.....	787	—	—	328	459												
Massachusetts.....	3,418	5	6	1,157	2,220	30											
New Jersey.....	4,255	15	10	2,571	1,659												
New York.....	2,066	101	82	88	930	856											
Ohio.....	10,332	843	4,080	5,158	301												
Pennsylvania.....	1,205	5	39	5	784	372											
Rhode Island.....	774	—	34	3	647	90											
SEWING MACHINES, CASES, AND ATTACHMENTS.																	
United States....	19,296	2	13	5,146	12,237	1,898											
Connecticut.....	2,696	—	—	699	1,982	15											
Illinois.....	1,713	—	—	663	776	274											
Indiana.....	2,203	—	—	2,151	11	47											
Massachusetts.....	889	—	—	881	8												
New Jersey.....	7,663	—	—	7,663	—												
Ohio.....	3,831	—	—	623	1,657	1,551											
SHIPBUILDING, INCLUDING BOAT BUILDING.																	
United States....	40,506	3,865	2,674	9,883	10,045	14,038	1	—									
California.....	1,844	—	—	228	1,144	400	—	72									
Delaware.....	1,239	—	—	—	—	1,159	50	30									
Maine.....	1,755	—	—	26	3	179	1,265	282									
Maryland.....	1,793	—	—	74	32	464	1,056	107									
Massachusetts.....	3,804	—	—	94	170	658	2,673	9									
Michigan.....	2,344	—	—	2	3	85	1,093	1,161									
New Jersey.....	4,869	—	—	150	191	1,278	340	2,910									
New York.....	5,644	—	—	2,271	882	2,000	160	331									
Ohio.....	3,200	—	—	3	16	181	375	2,675									
Pennsylvania.....	3,558	—	—	378	156	143	2,842	39									
Rhode Island.....	535	—	—	1	—	512	—	22									
Virginia.....	5,382	—	—	13	4	259	11	5,095									
Washington.....	744	—	—	272	2	462	—	18					</td				

PREVAILING HOURS OF LABOR.

329

HOURS OF LABOR—AVERAGE NUMBER OF WAGE EARNERS CLASSIFIED ACCORDING TO THE PREVAILING HOURS OF LABOR PER WEEK IN THE ESTABLISHMENTS IN WHICH THEY WORK, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

[See explanatory note on Table 8.]

Table 9—Contd.

STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS						STATE.	Total wage earners (average number).	WAGE EARNERS IN ESTABLISHMENTS WITH PREVAILING HOURS					
		48 and under.	Between 48 and 54.	Between 54 and 60.	Between 60 and 72.	Between 72 and over.	48 and under.			48 and under.	Between 48 and 54.	Between 54 and 60.	Between 60 and 72.	Between 72 and over.	

SMELTING AND REFINING, COPPER.

United States....	15,628	203	.....	.....	9,975	2,599	2,641	210
Arizona.....	3,129	.....	.....	.....	3,129	.....	.....	.....
California.....	744	.....	.....	.....	744	.....	.....	.....
New Jersey.....	2,322	.....	.....	.....	1,238	1,084	.....	.....

SOAP.

United States....	12,999	635	1,786	1,998	3,849	4,706	23	2
Illinois.....	2,188	8	95	19	49	2,015	.....	2
Missouri.....	554	2	46	310	41	155	.....	.....
New Jersey.....	1,599	3	1,101	202	188	105	.....	.....
New York.....	2,976	20	315	1,152	753	736	.....	.....
Ohio.....	1,774	9	30	1,200	526	.....	.....	.....
Pennsylvania.....	1,197	520	16	19	396	236	11	.....

STOVES AND FURNACES, INCLUDING GAS AND OIL STOVES.

United States....	37,130	2,261	2,407	7,895	10,434	14,065	68	.....
Illinois.....	4,499	430	53	1,107	811	2,008	.....	.....
Indiana.....	1,382	122	179	173	513	375	.....	.....
Kentucky.....	564	.....	.....	164	196	204	.....	.....
Massachusetts.....	1,708	44	48	1,431	180	.....	.....	.....
Michigan.....	4,482	255	671	60	1,180	2,316	.....	.....
Missouri.....	2,013	72	502	512	99	828	.....	.....
New Jersey.....	696	4	35	152	46	459	.....	.....
New York.....	4,247	373	105	811	1,543	1,347	68	.....
Ohio.....	7,274	336	350	1,539	3,116	1,933	.....	.....
Pennsylvania.....	4,196	187	226	773	1,303	1,709	.....	.....
Tennessee.....	1,085	5	98	239	7	736	.....	.....
Wisconsin.....	1,803	.....	74	.....	941	788	.....	.....

TOBACCO MANUFACTURES.

United States....	166,810	48,434	17,318	14,174	64,344	21,841	636	63
California.....	1,465	1,018	152	87	.....	182	25	1
Connecticut.....	1,513	1,442	31	10	24	6	.....	.....
Florida.....	12,280	3,460	832	3,248	337	3,962	426	9
Illinois.....	8,034	4,963	700	508	1,028	833	2	.....
Indiana.....	2,794	1,022	48	45	974	99	.....	6
Iowa.....	1,943	1,023	505	129	184	102	.....	.....
Kentucky.....	3,973	536	76	234	2,093	1,034	.....	.....
Louisiana.....	1,555	705	51	494	276	29	.....	.....
Maryland.....	3,476	359	1,219	177	1,554	167	.....	.....
Massachusetts.....	3,551	3,250	87	59	141	8	.....	.....
Michigan.....	7,876	2,509	1,173	1,854	1,981	356	3	.....
Minnesota.....	1,613	1,173	290	39	34	77	.....	.....
Missouri.....	4,453	1,158	118	81	2,632	464	.....	.....
Nebraska.....	537	323	.....	108	30	76	.....	.....
New Hampshire.....	571	115	.....	453	.....	3	.....	.....
New Jersey.....	9,466	712	205	486	6,562	1,499	2	.....
New York.....	30,019	10,419	5,232	1,132	10,542	2,657	16	1
North Carolina.....	8,203	66	59	4	7,628	446	.....	.....
Ohio.....	12,631	4,327	2,431	938	2,506	2,113	10	6
Pennsylvania.....	33,188	3,954	3,497	2,614	18,295	4,721	102	5
South Carolina.....	652	6	.....	.....	.....	646	.....	.....
Tennessee.....	1,006	142	53	220	239	352	.....	.....
Virginia.....	7,882	498	240	403	5,518	1,222	1	.....
Wisconsin.....	2,391	1,803	21	173	31	288	15	.....

TURPENTINE AND ROSIN.

United States....	39,511	14,786	2,647	1,022	280	19,607	997	172
Alabama.....	3,519	1,243	187	245	24	1,393	359	65
Florida.....	18,143	8,344	1,983	635	147	6,829	149	26
Georgia.....	12,757	2,764	428	139	109	9,032	241	74
Louisiana.....	1,688	262	.....	.....	.....	1,277	149	.....
Mississippi.....	2,573	1,830	24	.....	.....	621	98	.....

WIRE.

United States....	18,684	.....	76	1	7,626	10,232	149	.....
Connecticut.....	643	.....	.....	.....	.....	287	356	.....
Illinois.....	2,516	16	28	34	242	271	135	.....
Massachusetts.....	3,718	2	1	25	101	470	.....	.....
New Jersey.....	5,646	.....	.....	.....	5,559	87	.....	.....
New York.....	1,439	.....	.....	.....	640	799	.....	.....
Ohio.....	2,096	76	.....	.....	2,020	.....	.....	.....
Pennsylvania.....	946	228	333	333	613	.....	.....	.....

WIREWORK, INCLUDING WIRE ROPE AND CABLE.

United States....	12,348	150	481	1,684	5,951	3,895	187	.....
Connecticut.....	1,420	.....	26	34	881	479	.....	.....
Illinois.....	724	16	28	34	242	271	135	.....
Indiana.....	689	2	1	25	101	470	.....	.....
Massachusetts.....	1,578	11	89	264	1,204	10	.....	.....
Michigan.....	909	21	232	232	259	397	.....	.....
Missouri.....	710	4	.....	40	222	434	.....	.....
New Jersey.....	1,126	174	225	204	381	52	.....	.....
New York.....	1,649	10	104	424	620	291	.....	.....
Ohio.....	1,455	23	23	59	1,182	168	.....	.....
Pennsylvania.....	968	45	14	40	421	448	.....	.....

WOOD, TURNED AND CARVED.

United States....	14,139	488	400	1,040	4,465	7,525	215	6
Illinois.....	653	1	107	252	192	101	.....	.....
Indiana.....	677	2	34	51	89	501	.....	.....
Kentucky.....	652	86	.....	52	215	299	.....	.....
Maine.....	1,287	3	.....	73	235	773	199	6
Massachusetts.....	1,371	17	9	21	1,137	187	.....	.....
Michigan.....	1,137	10	18	20	36	1,053	.....	.....
New Hampshire.....	637	.....	.....	.....	505	132	.....	.....
New York.....	1,279	215	118	160	492	279	15	.....
Ohio.....	1,208	22	3	228	218	737	.....	.....
Pennsylvania.....	1,343	47	32	55	514	692	.....	.....
Tennessee.....	845	.....	7	13	.....	825	.....	.....

United States....	168,722	423	1,082	1,102	119,728	45,300	1,075	2
Connecticut.....	7,789	.....	.....	87	4,741	2,961	.....	.....
Georgia.....	660	.....	.....	2	15	306	339	.....
Indiana.....	776	.....	.....	.....	.....	774	.....	.....
Kentucky.....	815	.....	9	.....	.....	738	70	1
Maine.....	8,754	2	701	8,050	.....	.....	.....	.....
Massachusetts.....	53,873	359	138	255	48,567	4,554	.....	.....
Michigan.....	534	.....	25	51	478	.....	.....	.....
New Hampshire.....	9,486	.....	133	8	11,747	744	.....	.....
New Jersey.....	12,652	30	649	4,570	4,211	.....	.....	.....
Ohio.....	2,566	2	6	1,990	568	.....	.....	.....
Pennsylvania.....	27,409	2	77	14,810	12,511	.....	.....	.....
Rhode Island.....	24,924</							

CHAPTER XIII.

POWER USED IN MANUFACTURING.

Summary for all industries combined in the United States as a whole: 1869-1909.—The increasing importance of power in the manufacturing industries of the country is shown by Table 1, which gives for all industries combined the horsepower of the engines or motors employed by manufacturing concerns, as reported at each census from 1869 to 1909, inclusive.

Primary power, as the term is used by the Bureau of the Census, comprises all power which is primary from the standpoint of the manufacturing establishments using it. It includes, therefore, not only the power of engines and water wheels owned and operated by the manufacturing establishments, but also rented power—that is, the power of electric motors run by purchased current and any other power that may be purchased or rented from outside concerns. It should not be assumed that electric motors so operated are themselves rented, however, as they are in most cases owned by the establishments using the power. Primary power does not include the power of electric motors which are run by current generated in the same establishment, since to include this would evidently result in duplication.

The horsepower of electric motors run by current generated in the establishment where it is used is presented separately. This figure indicates the extent to which electric motors are being used for the distribution of the power generated by steam engines or other primary motors within the establishment, a matter of considerable interest, though without any direct bearing on the extent of the use of power in manufacturing industries. The total horsepower of all electric motors, including that of motors run by purchased current (classified as rented electric power) is also given, as another matter of incidental interest.

The power reported for custom sawmills and gristmills and for cotton gineries is included in the figures for the censuses prior to 1899, but not in those for that or subsequent censuses. The amount of power used in these establishments is comparatively small, however, and its inclusion has only a slight effect on the statistics for all industries combined, although it has an appreciable effect in the case of some states and of the industries directly concerned.

POWER.	HORSEPOWER. ¹						PER CENT DISTRIBUTION.					
	1909	1904	1899	1889	1879	1869	1909	1904	1899	1889	1879	1869
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Primary power, total.....	18,675,376	13,487,707	10,097,893	5,938,635	3,410,837	2,346,142	100.0	100.0	100.0	100.0	100.0	100.0
Owned.....	16,802,706	12,854,805	9,778,418	5,850,084	3,410,837	2,346,142	90.0	95.3	96.8	98.5	100.0	100.0
Steam engines.....	14,199,339	10,825,348	8,139,579	4,581,305	2,185,458	1,215,711	76.0	80.3	80.6	77.1	64.1	51.8
Gas and other internal-combustion engines.....	751,186	289,423	134,742	8,930	(2)	(2)	4.0	2.1	1.3	0.2	(2)	(2)
Water wheels.....	1,807,430	1,641,949	1,454,112	1,255,045	1,225,379	1,130,431	9.7	12.2	14.4	21.1	35.9	48.2
Water motors.....	15,449	5,931	(2)	(2)	(2)	(2)	0.1	(2)	(2)	(2)	(2)	(2)
Other.....	29,293	92,154	49,985	4,784	(2)	(2)	0.2	0.7	0.5	0.1	(2)	(2)
Rented.....	1,872,670	632,902	319,475	88,571	(2)	(2)	10.0	4.7	3.2	1.5	(2)	(2)
Electric.....	1,749,031	441,589	182,562	(4)	(2)	(2)	9.4	3.3	1.8	(2)	(2)	(2)
Other.....	123,639	191,313	136,918	88,571	(2)	(2)	0.7	1.4	1.4	1.5	(2)	(2)
Electric motors.....	4,817,140	1,592,475	492,936	15,569	(2)	(2)	100.0	100.0	100.0	100.0	(2)	(2)
Run by current generated by establishment.....	3,068,109	1,150,886	310,374	(1)	(2)	(2)	63.7	72.3	63.0	100.0	(2)	(2)
Run by purchased current.....	1,749,031	441,589	182,562	(1)	(2)	(2)	36.3	27.7	37.0	(2)	(2)	(2)

¹ For 1899 the figures include the power reported for hand trades and neighborhood industries, except custom gristmills, custom sawmills, and cotton gineries. Prior to 1899 they include that for all hand trades and neighborhood industries.

² Less than one-tenth of 1 per cent.

³ Not reported.

The total primary horsepower of manufacturing establishments in 1909 was 18,675,376, as compared with 2,346,142 in 1869. The percentages of increase for the four decades from 1869 to 1909 were 45.4, 74.1, 70, and 84.9, respectively. Of the total increase in primary power for the 40 years, amounting to 16,329,234 horsepower, steam power contributed 79.5 per cent, water power 4.2 per cent, the power of gas

and other internal-combustion engines 4.6 per cent, rented electric power 10.7 per cent, and other power nine-tenths of 1 per cent. In 1909, 90 per cent of the primary horsepower was owned power and 10 per cent was rented power, most of the latter being electric. The table shows a rapid increase in the percentage of rented power, beginning with 1899, when rented electric power was first reported separately.

Only steam power and water power (both forms representing owned power) were reported at the censuses of 1869 and 1879, other forms being then very unimportant. Slightly more than one-half (51.8 per cent) of the total power used in manufactures in 1869 was steam power. This proportion increased at each succeeding census until 1899, when the proportion had reached 80.6 per cent; during the decade 1899-1909, however, the proportion declined, being only 76 per cent in 1909. The amount of steam power reported for 1909 was 14,199,339 horsepower, or nearly twelve times the amount in 1869.

On the other hand, water power used directly in manufacturing has constituted a smaller proportion of the total primary power used in manufacturing at each succeeding census, representing only 9.8 per cent of the total primary power in 1909, as compared with 48.2 per cent in 1869. There was an actual increase in this form of power for the 40-year period, however, amounting to 692,457 horsepower, or 61.3 per cent. It should be noted, further, that a large part of the electric current purchased by manufacturing establishments is generated by water power. If the amount of the water power thus indirectly used by manufacturers could be ascertained and added to that directly used, the total would show a rapid increase, especially for the five-year period 1904-1909. The development of long-distance electric transmission, which makes it possible to use water power which is far distant from the cities and other places which are most desirable as locations for manufacturing establishments, is doubtless largely responsible for the marked increase in the use of rented electric power.

Gas engines, as the term is here used, include all kinds of internal-combustion engines, not only those using natural or manufactured gas and blast furnace gases, but also those using gasoline, crude petroleum, kerosene, and alcohol. The first United States census of manufactures at which statistics in regard to the use of internal-combustion engines (all classes of which are sometimes for brevity called gas engines) were obtained was that of 1889, when a total of 8,930 horsepower was reported for such engines. In 1909 the horsepower of this class of engines was 751,186, or more than eighty times as great, and the rates of increase for many of the states have been even more remarkable. The proportion of the total horsepower represented by that of such engines rose from two-tenths of 1 per cent in 1889 to 1.3 per cent in 1899, 2.1 per cent in 1904, and 4 per cent in 1909.

While much of the popularity of the gas engine is due to its adaptability for use where but a small amount of power is required, or where the power is not used continuously, the average capacity of these engines has increased steadily, from 9.4 horsepower in 1899 to 13.5 in 1904 and 21.9 in 1909. While the gas engine is used to some extent in states where natural gas is not available, this form of power is

most prominent in states which are large producers of natural gas. The extensive application of electric power has probably somewhat retarded the growth in the use of the gas engine, particularly in establishments where comparatively little power is required, but the further improvement of producer-gas systems, whereby the low grades of coal can be utilized for the development of power by means of these engines, will doubtless enhance their value. Again, part of the increased use of the gas engine is due to the fact that blast-furnace gas can be used in internal-combustion engines. In 1904 the blast-furnace branch of the iron and steel industry reported a total of 3,757 horsepower for gas engines, while in 1909 the horsepower of the gas engines in the industry had increased to 125,230, and their average capacity had risen from 139 horsepower to 2,087 horsepower.

The growth in the use of electricity in manufacturing industries has been remarkable. Statistics of the horsepower of electric motors used in manufacturing were first obtained at the census of 1889, when a total of 15,569 horsepower was reported. Rented electric power was first reported separately in 1899, in which year 182,562 horsepower was used. In 1909 the amount of this kind of power had increased to 1,749,031 horsepower, or nearly ten times as much as in 1899. Of the total rented power reported in 1899, electric power constituted 57.1 per cent, but the proportion had reached 93.4 per cent in 1909. All other kinds of rented power combined decreased in absolute amount during the decade.

Electric power is largely applied by means of relatively small motors distributed throughout the manufacturing establishment, some of which are in general use while others are required only at infrequent intervals. As the electric power can be used or cut off at will, it proves both convenient and economical, especially for the operation of machinery which is in use only a part of the time; and the cleanliness and quietness of the electric motor as compared with other sources of power also give it manifest advantages in certain industries, such as the clothing industries. These inherent advantages, taken in connection with the low cost, in many localities, of electric current generated by water power, explain the rapid increase in the use of rented electric power.

The electric motor run by purchased current furnishes power for manufacturing with a minimum of trouble or attention on the part of the operator, and for this reason it is often used with profit, especially in small establishments, even when rather high rates have to be paid for the current. Where large amounts of power are used, however, the cost of the current becomes of greater moment, and it often proves economical for an establishment which desires to enjoy the advantages of electrically driven machinery to install its own dynamos and transform at least a part of its primary power into electric energy, to be

MANUFACTURES.

thus distributed to the various machines as needed. In 1909 the horsepower of motors used in this way for the distribution of power by means of electric current generated in the same establishment was 3,068,109, as compared with 1,749,031 for motors run by purchased current; the rate of increase in the two classes between 1899, the first year when both were reported, and 1909, was about the same.

The horsepower of motors designed to be run by current generated in the establishment where used often exceeds the total primary power of the establishment, since in a number of industries many machines which are operated only a small part of the time are provided with individual motors. In the foundries and machine shops of Massachusetts, for example, there were in 1909 electric motors operated by current generated in the establishments with an indicated horsepower of 104,727, or nearly twice the total primary power of the industry in the state, which was 52,802; and in the locomotive industry as a whole the horsepower of secondary electric motors was in excess of the total primary power. It is evident, therefore, that the horsepower of these motors has no necessary relation to the total amount of power used (the total primary power), and that the extent to which secondary motors are employed will depend, in general, upon factors which do not affect the use of primary power. That is, while motors to be run by purchased current may be installed, by reason of their convenience, in establishments where no power at all would otherwise be used, secondary motors will ordinarily be installed only in plants where primary power was already previously used.

The forms of owned power included under the heading of "other" represent chiefly compressed-air and hot-air engines. Possibly some power units which, through a misunderstanding in the preparation of the reports, were not properly assigned to some one of the specified kinds of power, are included in this group.

Number of establishments using power.—As previously explained, the census of 1909 was not confined to large manufacturing establishments, but embraced all having products valued at \$500 or more, provided they were not engaged in the hand trades or neighborhood industries. In some of the industries distinguished at the census of 1909 little power is required and only a small proportion of the establishments reported any power at all. A good many small manufacturing establishments in other industries likewise used no power. A few establishments failed to report whether or not they employed power; the number of these was so small, however, as to have no appreciable effect on the statistics.

Of the 268,491 establishments covered by the census of 1909, 185,042, or 68.9 per cent, reported the use of power, as compared with 133,418 establish-

ments or 64.3 per cent of the total number, in 1899. The total number of establishments shown for 1899 includes some which, under the definition of "factories" adopted for later censuses, would have been omitted, so that these figures are not strictly comparable. Undoubtedly, however, the use of power was more general in 1909 than in 1899. The total number of establishments in all industries increased 29.4 per cent during the decade 1899-1909, while the number reporting power increased 38.7 per cent. The increase in the proportion of establishments using power is due chiefly to the more general use of rented electric power by small establishments, and in some measure also to the increased use of gas or other internal-combustion engines by such establishments.

The following table presents statistics as to the number of establishments reporting power and the rented electric power used, for 1909, 1904, and 1899, for the 13 industries in which there was a great increase during the decade in the proportion of establishments using power:

	Cen-sus.	NUMBER OF ESTAB- LISHMENTS.			RENTED ELEC- TRIC POWER.	
		Total.	Reporting power.		Amount.	Per cent of total power used.
			Num- ber.	Per cent of total.		
All industries.....	1909	268,491	185,042	68.9	1,749,031	9.4
	1904	216,180	134,481	62.2	441,589	3.3
	1899	207,514	133,418	64.3	182,582	1.8
Brick and tile.....	1909	4,215	3,523	83.6	16,719	4.0
	1904	4,634	3,476	75.0	2,566	1.0
	1899	5,423	3,232	59.6	.....	.....
Carriages and wagons and ma- terials.....	1909	5,492	3,583	65.2	24,989	19.8
	1904	5,588	2,763	49.4	8,780	8.3
	1899	6,792	2,269	33.4	3,014	3.6
Clothing, men's, including shirts	1909	6,354	4,402	69.3	18,816	44.0
	1904	5,145	2,764	53.7	9,581	32.1
	1899	6,419	2,033	31.7	5,076	24.8
Clothing, women's.....	1909	4,558	3,218	70.6	15,175	68.1
	1904	3,351	1,834	54.7	7,494	50.2
	1899	2,701	979	36.2	3,093	31.0
Fur goods.....	1909	1,241	418	33.7	1,430	67.5
	1904	867	143	16.5	484	24.3
	1899	734	69	9.4	253	27.8
Liquors, distilled.....	1909	613	479	78.1	708	1.5
	1904	805	622	77.3	41	0.1
	1899	965	588	55.8	100	0.3
Millinery and lace goods.....	1909	1,579	1,025	64.9	4,048	51.1
	1904	860	477	55.5	1,663	35.1
	1899	591	251	42.5	741	40.0
Mineral and soda waters.....	1909	4,916	3,501	72.4	5,504	28.4
	1904	3,468	1,885	54.4	1,760	14.4
	1899	2,763	902	32.6	465	5.8
Printing and publishing.....	1909	31,445	21,871	69.6	197,692	66.4
	1904	27,793	16,057	57.8	75,479	45.4
	1899	23,814	11,687	49.1	33,532	28.0
Rubber goods, not elsewhere specified.....	1909	227	202	89.0	3,499	4.4
	1904	224	188	83.9	1,096	2.3
	1899	261	194	74.3	197	0.5
Shipbuilding, including boat building.....	1909	1,353	914	67.6	9,294	10.5
	1904	1,097	611	55.7	2,367	8.0
	1899	1,107	425	38.4	975	1.6
Turpentine and rosin.....	1909	1,585	1,134	71.5	.....	.....
	1904	1,287	152	14.1	.....	.....
	1899	1,503	135	9.0	.....	.....
Wirework, including wire rope and cable.....	1909	611	436	71.4	5,642	28.0
	1904	649	398	61.3	2,000	10.9
	1899	596	289	48.5	451	3.5

For the turpentine and rosin industry no electric power was reported. In the case of the brick and tile, carriage and wagon, distillery, and rubber-goods industries there was a considerable decrease in the total number of establishments reported, which may account in part for the increase in the proportion of establishments using power. The other 8 industries included in the table show a rapid increase in the use of rented electric power, and in most of them such power formed a very large proportion of the total primary power. It seems evident, therefore, that the convenience of electric motors as a source of power for small establishments, especially those located in cities, is one of the principal factors tending to increase the proportion of the total number of establishments using power.

Description of detailed tables for individual industries.—General Table II gives, among other data, detailed statistics of power in 1909 for the 259 industries for which separate figures can be given, showing the number of establishments reporting power, the total primary power, the number of engines and motors, and the amount of the different kinds of power, both owned and rented, that make up this total. It also gives the number and horsepower of electric motors run by current generated in the same establishment, as well as the number and horsepower of all electric motors taken together.

Table 9, at the end of this chapter, gives statistics of power for the 86 industries reporting 10,000 or more wage earners, by states.

Horsepower in leading industries: 1909, 1904, and 1899.—Table 3 shows for 102 industries the amount of each of the several kinds of primary power reported in 1909, 1904, and 1899. The total electric power is also shown, including that of motors operated by current generated in the establishments, in addition to that of motors operated by purchased current. The first 86 of these industries were selected because they were the most important from the standpoint of employment, each reporting 10,000 or more wage earners in 1909. There were a number of industries, however, that reported a greater amount of power than some of those included in these 86 leading industries, and the statistics of power for 16 of these industries—those which in 1909 reported more than 20,000 horsepower—are also shown in the table. The cane sugar and molasses industry and the sugar-refining industry, each of which used more than 20,000 horsepower in 1909, have been combined in this table under the heading of "sugar and molasses, not including beet sugar," because comparative figures for 1904 and 1899 are not available for the industries separately.

The total primary power used in 1909 exceeded 800,000 horsepower in 7 industries, namely, the lumber industry, the steel works and rolling mills, the manufacture of paper and wood pulp, and of cotton goods, the blast-furnace industry, the foundries and machine shops, and the flour mills and gristmills. The primary power for these 7 industries combined amounted

to 10,438,153 horsepower, or 55.9 per cent of the total for all industries.

The industries listed in Table 3 differ very widely with respect to the relative importance of the several kinds of power. This is due partly to differences in the geographic location of the industries, which affect the character of the power most easily available, and partly to differences in the character of the machinery used, which affect the adaptability of the different kinds of power.

Steam power constituted 76 per cent of the total primary power reported for all industries combined, and in very many of the individual industries it was by far the most important kind of power used. In 2 of the 5 industries reporting the largest amounts of primary power—the lumber industry and the steel works and rolling mills, it formed more than nine-tenths of the total and in one other—the blast furnaces—it formed more than seven-eighths; and in each of these 5 industries the horsepower of steam engines exceeded 1,000,000.

In only one of the industries included in Table 3, the manufacture of paper and wood pulp, was water power the most important kind of power used. The water power used in this industry amounted to 788,146 horsepower, or 60.4 per cent of the total primary power. Large amounts of water power were also used in the cotton-goods industry and in the flour-mill and grist-mill industry.

Electric power (rented) formed a larger proportion of the total primary power than any other kind in 1909 in 11 industries, namely, the street-railroad repair shops, the manufacture of fur goods, printing and publishing, the manufacture of artificial flowers and feathers and plumes, the roasting and grinding of coffee and spice, the manufacture of millinery and lace goods, of leather goods, of mattresses and spring beds, and of jewelry, the bakery industry, and the men's clothing industry. In 1899, however, steam engines constituted the most important source of power for 8 of these industries, and gas engines for the other 2.

The total primary horsepower in each of the 97 industries for which comparative statistics for 1899 are given in Table 3 increased during the decade 1899–1909, and all except 5—the manufacture of glucose and starch, coke, firearms and ammunition, explosives, and rubber boots and shoes—show an increase for the five-year period 1904–1909. Steam power decreased in 2 of the industries between 1899 and 1909, and in 14 industries between 1904 and 1909. Water power, however, shows a decrease for the decade in 34 industries, and for the five-year period 1904–1909 in 43 industries. Twenty-four industries show a decrease in the amount reported for gas-engine and "other" power for the decade, and 30 for the period from 1904 to 1909. Only 2 of the industries covered by the table, however, show any decrease, either for the decade or for the period 1904–1909, in the amount of rented electric power.

MANUFACTURES.

HORSEPOWER USED IN 102 LEADING INDUSTRIES: 1909, 1904, AND 1899.

Table 3

INDUSTRY.	PRIMARY HORSEPOWER.					Electric horsepower owned and rented.
	Total.	Steam engines. ¹	Water wheels and motors. ¹	Gas engines ¹ and "other." ²	Electric, rented.	
All industries:						
1909.....	18,675,376	14,199,339	1,822,888	904,118	1,749,031	4,817,140
1904.....	13,457,707	10,825,348	1,647,860	572,890	441,589	1,592,475
1899.....	10,097,693	8,139,579	1,454,112	321,640	182,562	492,936
INDUSTRIES WITH OVER 10,000 WAGE EARNERS IN 1909.						
Agricultural implements:						
1909.....	100,601	71,394	8,390	5,133	15,684	38,905
1904.....	89,738	75,018	6,300	4,592	3,528	20,713
1899.....	70,046	61,147	6,758	1,041	1,100	7,643
Artificial flowers and feathers and plumes:						
1909.....	334	81	12	37	204	244
1904.....	184	110	-----	32	42	42
1899.....	113	28	-----	45	40	40
Automobiles, including bodies and parts: ³						
1909.....	75,550	39,325	287	8,297	27,641	41,629
1904.....	10,109	7,376	80	1,602	1,051	4,229
Boots and shoes, including cut stock and findings:						
1909.....	96,302	60,772	2,815	15,334	17,381	32,381
1904.....	63,988	44,387	2,270	11,352	8,959	12,663
1899.....	55,489	38,621	2,603	10,382	3,823	5,525
Boots and shoes, rubber:						
1909.....	25,903	22,293	1,883	15	1,712	3,407
1904.....	26,054	24,145	1,300	600	39	1,191
1899.....	25,017	23,442	1,525	50	-----	188
Boxes, fancy and paper:						
1909.....	23,323	10,727	2,425	3,244	8,927	9,415
1904.....	15,117	8,337	1,718	2,924	2,138	3,057
1899.....	9,286	6,077	304	1,991	854	1,311
Brass and bronze products:						
1909.....	106,120	78,101	3,374	6,246	18,399	33,462
1904.....	69,494	58,869	2,059	4,523	3,143	8,846
1899.....	47,257	40,330	2,271	3,917	739	1,635
Bread and other bakery products:						
1909.....	65,298	25,506	334	8,298	31,160	39,795
1904.....	37,241	22,608	452	5,818	8,363	11,993
1899.....	22,472	17,802	329	2,316	2,025	2,477
Brick and tile:						
1909.....	341,169	313,164	272	11,014	16,719	21,130
1904.....	255,362	246,200	458	6,138	2,566	3,036
1899.....	176,700	175,456	208	1,036	-----	505
Butter, cheese, and condensed milk:						
1909.....	101,349	90,802	1,465	3,716	5,300	8,276
1904.....	93,845	88,677	1,411	2,160	1,597	2,378
1899.....	88,062	84,666	1,594	1,486	316	627
Buttons:						
1909.....	12,831	7,594	850	1,554	2,833	3,416
1904.....	6,982	4,374	517	1,523	568	679
1899.....	4,105	2,305	144	1,599	117	187
Canning and preserving:						
1909.....	81,179	70,362	398	4,950	5,469	8,728
1904.....	60,831	56,065	460	2,530	1,776	3,150
1899.....	38,624	35,990	219	1,792	623	1,542
Carpets and rugs, other than rag:						
1909.....	38,553	30,680	3,305	1,859	2,709	10,906
1904.....	33,945	29,631	2,988	1,033	293	5,587
1899.....	26,740	23,091	3,145	504	-----	192
Carriages and wagons and materials: ⁴						
1909.....	126,032	82,911	4,667	13,485	24,069	39,424
1904.....	106,159	82,414	3,917	11,048	8,780	16,434
1899.....	83,771	70,864	3,842	6,051	3,014	5,905
Cars and general shop construction and repairs by steam-railroad companies:						
1909.....	293,361	254,942	450	4,183	33,786	161,288
1904.....	167,973	143,110	203	18,586	6,074	52,635
1899.....	95,087	90,342	56	4,469	220	4,563
Cars and general shop construction and repairs by street-railroad companies:						
1909.....	35,794	4,831	-----	9	30,954	33,024
1904.....	3,154	1,355	600	40	1,159	10,358
1899.....	6,443	4,530	75	650	1,188	7,999
Cars, steam-railroad, not including operations of railroad companies:						
1909.....	97,797	89,123	370	1,848	6,456	61,060
1904.....	55,994	52,201	225	3,192	316	14,505
1899.....	33,395	32,293	302	710	-----	1,292
Cement: ⁵						
1909.....	371,799	295,038	3,430	19,165	54,166	158,749
1904.....	149,604	137,112	2,080	3,761	5,751	36,292
Chemicals: ⁶						
1909.....	208,004	103,273	11,066	2,208	92,057	156,699
1904.....	132,262	70,194	6,469	45,521	10,078	18,188
1899.....	90,349	69,560	1,915	643	18,281	20,263
Clocks and watches, including cases and materials:						
1909.....	14,957	12,593	284	468	1,612	7,023
1904.....	10,731	9,180	449	210	892	3,513
1899.....	7,251	6,300	443	377	131	545
Clothing, men's, including shirts:						
1909.....	42,725	16,003	1,380	6,526	18,816	22,894
1904.....	29,829	14,621	910	4,717	9,581	11,937
1899.....	20,457	10,533	695	4,153	5,076	6,279
Clothing, women's:						
1909.....	22,294	4,112	208	2,801	15,175	16,085
1904.....	14,916	4,172	300	2,941	7,494	8,027
1899.....	9,962	2,822	519	3,528	3,093	3,376

¹ Owned power only.² Under "other" are included all kinds of primary power, both owned and rented, not specifically covered by other headings. The amount of such power reported at the respective censuses was as follows: 1909, 152,932 horsepower; 1904, 283,467 horsepower; 1899, 186,898 horsepower.³ "Carriages and wagons and materials" for 1899 includes "automobiles, including bodies and parts."⁴ Included under "lime" for 1899.⁵ Includes for 1899 "sulphuric, nitric, and mixed acids" and "wood distillation, not including turpentine and rosin."⁶ Includes electricity used in the electrolytic process of extracting aluminum from alumina.

HORSEPOWER USED IN 102 LEADING INDUSTRIES: 1909, 1904, AND 1899—Continued.

Table 3—Continued.

INDUSTRY.	PRIMARY HORSEPOWER.					Electric horsepower owned and rented.
	Total.	Steam engines. ¹	Water wheels and motors. ¹	Gas engines ¹ and "other." ²	Electric, rented.	
INDUSTRIES WITH OVER 10,000 WAGE EARNERS IN 1909—continued.						
Coke:						
1909.	62,602	44,591	500	8,757	13,754	41,064
1904.	66,669	59,829	188	5,465	1,187	10,509
1899.	34,767	29,148	.....	5,619	.....	1,462
Confectionery:						
1909.	35,870	25,090	8	2,165	8,607	16,983
1904.	24,292	19,597	21	1,314	3,360	6,832
1899.	19,410	14,197	162	2,497	2,554	3,793
Cooperage and wooden goods, not elsewhere specified:						
1909.	65,108	54,971	3,818	3,500	2,819	4,524
1904.	56,988	49,946	4,060	2,013	969	2,086
1899.	38,402	34,481	2,770	936	215	683
Copper, tin, and sheet-iron products: ³						
1909.	62,306	34,050	420	9,398	17,898	30,771
1904.	30,229	20,645	272	4,306	5,006	7,454
1899.	28,829	14,571	118	2,590	11,550	12,160
Cordage and twine and jute and linen goods:						
1909.	78,549	58,855	15,768	1,404	2,522	15,816
1904.	66,244	52,532	12,599	354	759	8,293
1899.	47,999	38,473	8,249	1,249	28	1,624
Corsets:						
1909.	4,581	3,320	.....	200	1,061	2,804
1904.	3,284	2,695	10	317	282	434
1899.	3,638	2,071	30	446	191	455
Cotton goods, including cotton small wares:						
1909.	1,296,517	869,838	303,024	15,143	108,512	235,902
1904.	986,604	707,607	252,923	11,979	14,045	67,159
1899.	793,634	531,611	251,350	10,292	2,081	17,594
Cutlery and tools, not elsewhere specified:						
1909.	68,294	38,780	13,382	7,807	8,325	17,785
1904.	54,397	34,104	11,459	5,181	3,653	8,427
1899.	38,283	22,711	11,988	3,003	581	1,223
Dyeing and finishing textiles:						
1909.	107,746	92,284	10,114	2,683	2,665	24,011
1904.	84,468	70,355	10,130	3,266	1,087	11,724
1899.	69,238	57,216	9,474	2,498	50	1,999
Electrical machinery, apparatus, and supplies:						
1909.	158,768	99,883	1,114	7,728	50,045	164,540
1904.	105,376	77,069	1,181	5,873	21,313	61,753
1899.	43,674	34,018	835	4,747	4,074	24,256
Fancy articles, not elsewhere specified:						
1909.	8,310	5,131	452	944	1,783	4,115
1904.	5,886	3,537	296	1,261	792	1,021
1899.	4,386	2,834	426	848	278	343
Fertilizers:						
1909.	64,711	49,740	365	2,027	12,579	19,238
1904.	47,989	44,672	353	606	2,358	5,275
1899.	38,880	37,121	359	980	220	1,061
Firearms and ammunition:						
1909.	17,840	10,741	989	3,832	2,278	8,472
1904.	21,408	18,083	1,139	1,554	632	3,777
1899.	7,470	6,146	755	398	171	639
Flour-mill and gristmill products:						
1909.	853,584	473,363	284,131	66,189	49,901	67,066
1904.	775,318	473,689	258,352	27,693	15,584	20,308
1899.	670,710	407,475	242,821	16,217	4,206	5,371
Food preparations: ⁴						
1909.	55,186	35,293	1,150	5,273	13,480	20,924
1904.	28,162	22,118	1,188	1,763	3,123	4,239
1899.	15,485	12,984	683	1,234	584	799
Foundry and machine-shop products: ⁵						
1909.	869,305	546,206	18,702	111,420	192,977	623,914
1904.	606,165	450,891	18,633	81,232	55,350	199,625
1899.	443,085	362,096	22,209	42,751	16,029	54,907
Fur goods:						
1909.	2,120	648	.....	42	1,430	1,440
1904.	1,994	1,027	272	211	484	484
1899.	907	465	25	164	253	271
Furnishing goods, men's: ⁶						
1909.	12,116	7,501	480	1,147	2,988	4,860
1904.	5,421	3,504	28	912	977	1,586
1899.	3,552	2,371	206	436	539	543
Furniture and refrigerators:						
1909.	221,451	184,425	6,848	9,758	20,420	43,252
1904.	169,774	149,482	6,890	8,816	4,586	9,565
1899.	119,608	105,550	6,637	5,815	1,606	3,392
Gas and electric fixtures and lamps and reflectors:						
1909.	15,862	6,930	244	2,792	5,896	8,788
1904.	8,444	5,125	77	1,878	1,364	2,213
1899.	6,991	4,916	165	1,322	588	1,081
Gas, illuminating and heating:						
1909.	128,350	115,382	2,814	7,481	2,723	17,336
1904.	73,101	67,382	359	3,806	1,454	3,978
1899.	31,797	31,165	33	547	52	271
Glass:						
1909.	123,132	99,971	5	20,731	8,425	43,589
1904.	91,476	76,599	31	14,263	583	16,769
1899.	52,943	49,791	27	3,081	44	6,030
Gloves and mittens, leather:						
1909.	2,839	1,625	250	164	850	1,000
1904.	2,725	1,676	250	863	436	472
1899.	2,165	1,312	211	407	235	258

¹ Owned power only.² Under "other" are included all kinds of primary power, both owned and rented, not specifically covered by other headings.³ Includes for 1909 some establishments manufacturing enameled stamped ware which were included under "enameling and japanning" in 1904 and 1899.⁴ Includes for 1909 some establishments compounding table sirups which were included under "sugar and molasses" in 1904 and 1899.⁵ Includes for 1899 "stoves and furnaces, including gas and oil stoves," and "locomotives, not made by railroad companies."⁶ Includes for 1909 some establishments manufacturing suspenders, garters, and elastic woven goods, which were classified under "rubber goods, not elsewhere specified," or under "millinery and lace goods" in 1904 and 1899.

MANUFACTURES.

HORSEPOWER USED IN 102 LEADING INDUSTRIES: 1909, 1904, AND 1899—Continued.

Table 3—Continued.

INDUSTRY.	PRIMARY HORSEPOWER.					Electric horsepower owned and rented.
	Total.	Steam engines. ¹	Water wheels and motors. ¹	Gas engines ¹ and "other." ²	Electric, rented.	
INDUSTRIES WITH OVER 10,000 WAGE EARNERS IN 1909—continued.						
Hats, fur-felt:						
1909.....	19,245	16,653	20	400	2,172	6,186
1904.....	16,630	15,871	68	322	369	2,434
1899.....	11,843	11,570	25	109	79	881
Hosiery and knit goods:						
1909.....	103,709	74,560	12,038	3,825	13,288	25,485
1904.....	78,769	57,460	13,532	3,129	4,648	9,724
1899.....	57,346	39,693	14,824	1,525	1,304	2,049
Ice, manufactured:						
1909.....	317,789	304,572	2,262	5,541	5,414	14,253
1904.....	191,660	184,570	1,075	4,947	1,088	4,579
1899.....	100,421	95,937	807	3,288	389	1,881
Iron and steel, blast furnaces:						
1909.....	1,173,422	1,033,033	309	125,230	14,850	135,143
1904.....	773,278	762,382	680	10,077	139	52,610
1899.....	497,272	494,798	582	1,892	—	8,693
Iron and steel, steel works and rolling mills:						
1909.....	2,100,978	1,955,346	5,829	81,006	55,797	716,609
1904.....	1,649,299	1,610,612	4,795	27,094	6,798	254,258
1899.....	1,100,801	1,086,897	8,067	4,960	877	64,658
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills:						
1909.....	22,113	14,833	954	2,142	4,179	8,625
1904.....	13,825	11,582	461	1,065	717	2,888
1899.....	9,165	7,612	935	473	145	1,815
Jewelry:						
1909.....	11,204	2,744	200	3,081	5,179	5,759
1904.....	7,872	2,413	92	2,568	2,799	2,974
1899.....	6,656	1,885	228	2,992	1,551	1,577
Leather goods:						
1909.....	28,143	10,028	1,373	1,801	14,946	16,663
1904.....	16,257	9,231	1,400	1,976	3,641	4,578
1899.....	10,947	7,150	679	1,565	1,553	1,635
Leather, tanned, curried, and finished:						
1909.....	148,140	131,311	1,556	8,786	6,487	35,919
1904.....	117,450	107,510	1,955	5,971	2,014	14,539
1899.....	88,860	84,229	2,231	1,537	863	3,920
Lime: ³						
1909.....	27,671	24,271	441	1,462	1,497	2,560
1904.....	18,198	16,500	243	930	475	1,231
1899.....	93,540	88,083	2,239	2,251	807	5,372
Liquors, malt:						
1909.....	347,726	330,705	340	2,491	14,180	66,519
1904.....	266,159	258,305	678	3,807	3,369	22,508
1899.....	197,901	193,430	319	1,612	540	7,172
Locomotives, not made by railroad companies: ⁴						
1909.....	35,102	28,831	200	4,520	1,551	40,604
1904.....	29,806	26,007	1,230	1,095	1,474	13,267
Lumber and timber products:						
1909.....	2,840,032	2,587,487	140,508	49,892	62,200	130,707
1904.....	1,886,624	1,720,185	119,461	32,797	14,181	33,517
1899.....	1,658,594	1,490,098	159,644	16,820	2,032	11,315
Marble and stone work: ⁵						
1909.....	187,686	132,236	9,618	13,770	32,062	53,748
1904.....	102,887	80,223	6,281	9,545	6,838	11,273
1899.....	83,119	70,756	6,247	3,977	2,139	3,314
Mattresses and spring beds:						
1909.....	17,689	6,206	378	2,790	8,315	10,192
1904.....	13,220	7,893	318	2,087	2,922	3,350
1899.....	7,980	5,645	198	1,207	927	971
Millinery and lace goods: ⁶						
1909.....	7,918	2,869	117	884	4,048	4,560
1904.....	4,737	2,192	46	836	1,663	2,110
1899.....	1,852	750	18	343	741	743
Mineral and soda waters:						
1909.....	19,392	8,688	375	4,845	5,504	6,218
1904.....	12,214	7,364	414	2,676	1,760	1,908
1899.....	8,037	6,312	113	1,147	465	541
Musical instruments, pianos and organs and materials:						
1909.....	41,623	33,314	1,106	1,848	5,355	13,256
1904.....	30,134	25,700	867	1,635	1,932	5,085
1899.....	20,789	18,258	872	1,166	493	1,457
Oil, cottonseed, and cake:						
1909.....	192,342	183,440	175	2,333	6,304	10,855
1904.....	150,246	148,878	559	151	658	3,079
1899.....	73,071	71,574	785	352	360	1,297
Paint and varnish:						
1909.....	56,162	42,166	2,006	4,176	7,814	17,037
1904.....	41,288	34,952	997	2,689	2,650	7,540
1899.....	30,443	26,890	950	1,747	856	1,788
Paper and wood pulp:						
1909.....	1,304,265	469,089	788,146	8,420	38,610	130,120
1904.....	1,098,708	370,852	717,989	2,118	2,748	31,604
1899.....	762,118	255,854	504,762	1,417	85	2,814
Paper goods, not elsewhere specified:						
1909.....	27,067	19,246	1,340	1,236	5,245	12,680
1904.....	16,226	13,541	285	807	1,593	3,990
1899.....	10,421	8,651	277	1,066	427	887
Patent medicines and compounds and druggists' preparations:						
1909.....	25,659	15,938	264	2,575	6,882	11,175
1904.....	17,008	12,153	173	2,209	2,468	4,894
1899.....	12,707	10,176	231	1,299	1,001	1,881

¹ Owned power only.² Under "other" are included all kinds of primary power, both owned and rented, not specifically covered by other headings.³ Includes, for 1899, "cement" and "wall plaster."⁴ Included under "foundry and machine-shop products" for 1899.⁵ Includes for 1899 "artificial stone."⁶ Includes for 1904 and 1899 some establishments manufacturing suspenders, garters, and elastic woven goods, which were classified under "furnishing goods, men's," for 1909.

HORSEPOWER USED IN 102 LEADING INDUSTRIES: 1909, 1904, AND 1899—Continued.

Table 3—Continued.

INDUSTRY.	PRIMARY HORSEPOWER.					Electric horsepower owned and rented.
	Total.	Steam engines. ¹	Water wheels and motors. ¹	Gas engines ¹ and "other." ²	Electric, rented.	
INDUSTRIES WITH OVER 10,000 WAGE EARNERS IN 1909—continued.						
Petroleum, refining:						
1909.....	90,268	83,707	.....	6,533	28	8,808
1904.....	46,019	43,480	.....	2,389	150	3,468
1899.....	36,127	30,508	.....	5,559	.....	925
Pottery, terra-cotta, and fire-clay products:						
1909.....	110,017	101,965	95	4,413	3,544	10,643
1904.....	104,918	99,088	355	3,630	1,847	4,684
1899.....	75,802	73,848	773	1,181	.....	1,892
Printing and publishing:						
1909.....	297,763	59,240	2,320	38,511	197,692	229,312
1904.....	166,380	54,897	3,332	32,672	75,479	93,219
1899.....	119,775	54,723	2,821	28,649	33,882	41,413
Rubber goods, not elsewhere specified: ³						
1909.....	79,062	71,635	2,455	1,473	3,499	18,848
1904.....	48,381	44,728	1,984	575	1,096	8,596
1899.....	40,885	36,747	3,120	771	197	891
Sewing machines, cases, and attachments:						
1909.....	19,426	18,131	291	107	897	14,083
1904.....	17,162	16,301	452	135	274	4,994
1899.....	10,069	8,966	740	329	34	323
Shipbuilding, including boat building:						
1909.....	88,063	73,149	88	5,564	9,264	35,334
1904.....	78,127	69,253	87	6,420	2,387	17,630
1899.....	61,797	55,899	1,700	3,223	975	7,177
Silk and silk goods, including throwsters:						
1909.....	97,947	72,059	8,383	7,151	10,354	23,758
1904.....	71,780	56,302	6,974	6,081	2,393	9,521
1899.....	57,397	45,959	8,666	4,163	609	4,607
Silverware and plated ware:						
1909.....	15,183	10,355	695	1,196	2,937	7,319
1904.....	12,573	8,671	802	1,770	1,630	3,837
1899.....	8,486	6,163	665	1,255	403	985
Slaughtering and meat packing:						
1909.....	208,707	190,638	46	2,978	15,047	78,877
1904.....	119,311	113,479	311	2,080	3,441	40,538
1899.....	87,060	85,149	18	771	1,127	11,304
Smelting and refining, copper:						
1909.....	158,126	114,862	12,725	1,125	29,413	55,229
1904.....	76,524	61,402	9,400	2,807	3,115	12,419
1899.....	61,630	48,128	9,467	4,037	.....	4,612
Soap: ⁴						
1909.....	28,360	24,498	255	1,633	1,974	12,839
1904.....	20,228	18,747	53	911	517	4,410
1899.....	17,514	15,573	187	1,634	120	1,064
Stoves and furnaces, including gas and oil stoves:						
1909.....	45,524	32,993	259	3,306	8,986	18,159
1904.....	32,017	25,973	555	2,658	2,831	6,794
Tobacco manufactures:						
1909.....	28,514	21,929	245	973	5,307	11,203
1904.....	24,604	20,155	257	2,251	1,941	6,515
1899.....	22,296	20,450	438	907	411	2,989
Turpentine and rosin:						
1909.....	4,129	3,864	14	251	.....	.....
1904.....	1,175	1,128	3	44	.....	.....
1899.....	866	708	.....	160	.....	.....
Wire:						
1909.....	71,959	63,409	2,151	3,368	3,031	18,824
1904.....	25,856	23,696	1,054	759	347	1,710
1899.....	9,979	8,695	1,200	84	.....	135
Wirework, including wire rope and cable:						
1909.....	20,131	10,553	930	3,006	5,642	8,801
1904.....	18,280	12,716	714	2,850	2,000	5,119
1899.....	12,772	10,234	653	1,434	451	973
Wood, turned and carved:						
1909.....	48,447	37,198	5,311	3,655	2,283	2,966
1904.....	47,595	38,379	5,250	3,274	692	993
1899.....	31,133	22,360	4,809	3,637	327	376
Woollen, worsted, and felt goods, and wool hats:						
1909.....	362,200	281,384	79,250	7,812	13,783	79,223
1904.....	288,569	199,615	76,366	9,058	3,930	22,222
1899.....	244,825	163,161	75,911	955	4,788	7,303
OTHER INDUSTRIES WITH OVER 20,000 HORSEPOWER IN 1909.						
Beet sugar:						
1909.....	57,202	54,389	200	543	2,090	8,888
1904.....	35,490	35,010	428	40	5	4,702
1899.....	14,460	14,442	.....	18	.....	2,388
Beltng and hose, woven and rubber:						
1909.....	20,547	14,160	770	2,080	3,537	6,460
1904.....	13,491	11,696	950	188	657	904
1899.....	5,612	4,779	625	185	23	23
Coffee and spice, roasting and grinding: ⁵						
1909.....	22,334	8,825	150	1,145	12,205	22,413
1904.....	15,703	9,327	183	1,151	5,037	8,160
1899.....	16,270	11,407	127	1,730	2,916	5,331
Dyestuffs and extracts:						
1909.....	22,213	21,685	320	17	191	1,684
1904.....	17,671	17,348	196	107	20	659
1899.....	11,409	10,508	325	556	20	179

¹ Owned power only.² Under "other" are included all kinds of primary power, both owned and rented, not specifically covered by other headings.³ Includes for 1904 and 1899 some establishments manufacturing suspenders, garters, and elastic woven goods, which were classified under "furnishing goods, men's," for 1909.⁴ Includes for 1899 "candles."⁵ Included under "foundry and machine-shop products" for 1899.⁶ Includes for 1899 "peanuts, grading, roasting, cleaning, and shelling."

HORSEPOWER USED IN 102 LEADING INDUSTRIES: 1909, 1904, AND 1899—Continued.

Table 3—Continued.

INDUSTRY.	PRIMARY HORSEPOWER.					Electric horsepower owned and rented.
	Total.	Steam engines. ¹	Water wheels and motors. ¹	Gas engines ¹ and "other." ²	Electric, rented.	
OTHER INDUSTRIES WITH OVER 20,000 HORSEPOWER IN 1909—continued.						
Explosives:						
1909.....	28,601	25,558	2,689	221	133	14,836
1904.....	29,665	21,636	7,177	852	.....	7,889
1899.....	19,195	13,242	5,674	169	110	2,995
Glucose and starch:						
1909.....	28,257	27,835	185	74	163	27,230
1904.....	35,985	33,406	2,180	231	169	12,890
1899.....	26,642	24,490	1,895	194	63	1,888
Iron and steel forgings:						
1909.....	27,803	17,261	520	5,452	4,570	11,493
1904.....	16,069	13,459	904	1,393	313	1,945
1899.....	7,697	6,419	976	192	111	159
Iron and steel pipe, wrought:						
1909.....	20,656	19,892	.....	.....	764	12,644
1904.....	15,094	14,966	.....	9	119	2,861
1899.....	11,717	10,774	400	506	37	632
Kaolin and ground earths:						
1909.....	20,920	13,029	6,283	233	1,375	1,664
1904.....	17,325	11,861	4,414	760	290	305
1899.....	18,404	10,198	7,750	436	20	50
Liquors, distilled:						
1909.....	46,120	44,623	252	537	708	8,786
1904.....	42,349	41,251	410	847	41	813
1899.....	31,427	30,779	377	171	100	352
Malt:						
1909.....	26,441	20,417	197	560	5,287	9,911
1904.....	20,288	17,033	631	509	1,515	3,248
1899.....	13,834	12,570	675	213	376	995
Salt:						
1909.....	27,263	24,930	108	984	1,241	3,425
1904.....	19,434	18,169	33	1,036	196	664
1899.....	23,865	23,104	8	728	25	220
Smelting and refining, lead:						
1909.....	26,954	23,090	.....	35	3,829	12,166
1904.....	25,667	22,440	1	100	3,126	10,107
1899.....	16,342	13,948	373	611	1,410	2,020
Smelting and refining, zinc:						
1909.....	21,457	19,052	192	1,313	.....	8,448
1904.....	18,404	17,556	.....	848	.....	5,048
1899.....	11,095	11,095	.....	50	.....	1,401
Sugar and molasses, not including beet sugar: ³						
1909.....	160,603	158,682	.....	605	1,316	18,730
1904.....	140,650	139,187	240	1,119	104	7,315
1899.....	152,560	151,377	211	939	42	3,011
Wall plaster: ⁴						
1909.....	25,892	19,035	845	1,435	4,517	6,167
1904.....	20,054	16,161	1,580	1,254	1,059	1,640
All other industries:						
1909.....	660,034	465,053	32,866	56,801	111,314	212,032
1904.....	506,357	397,339	29,334	42,631	37,053	81,385
1899.....	545,851	434,957	33,211	47,821	29,862	45,343

¹ Owned power only.² Under "other" are included all kinds of primary power, both owned and rented, not specifically covered by other headings.³ Includes the two industries shown separately in some tables of this report under the headings "sugar and molasses" and "sugar, refining, not including beet sugar," which were classified as a single industry in 1904 and 1899. Figures for 1904 and 1899 includes those for a few establishments compounding table syrups which were classified under "food preparations" in 1909.⁴ Included under "lime" for 1899.

Average horsepower per establishment.—While the number of establishments using power has increased greatly, the average amount of power used per establishment has also increased in most industries. Table 4 gives, for the 102 industries covered by Table 3, the average horsepower per establishment reporting the use of power at the censuses of 1909, 1904, and 1899. It also shows the percentage which the number of establishments using power formed of the total number of establishments in 1909.

For all industries combined the average horsepower per establishment reporting the use of power increased from 76 in 1899 to 100 in 1904 and 101 in 1909.

The average horsepower per establishment in 1909 was greatest in the industry "iron and steel, blast furnaces," followed by "iron and steel, steel works

and rolling mills," "smelting and refining, copper," "cement," and "locomotives, not made by railroad companies."

All but 16 of the industries given in this table show an increase in the average horsepower per establishment in 1909 as compared with 1899. The majority of the 16 industries which show a decrease used comparatively little power. In most of the industries the number of small establishments which require only a small amount of power has increased rapidly, thus tending to reduce the average per establishment.

There were 9 industries in 1909 in which the average horsepower exceeded 1,000 per establishment, including one, the construction of street-railroad cars, that is not included in the 102 industries shown in Table 4.

POWER USED.

339

AVERAGE HORSEPOWER PER ESTABLISHMENT, FOR 102 LEADING INDUSTRIES: 1909, 1904, AND 1899.

Table 4

INDUSTRY.	AVERAGE PRIMARY HORSEPOWER PER ESTABLISHMENT USING POWER.			PER CENT OF ESTABLISHMENTS USING POWER: 1909	INDUSTRY.	AVERAGE PRIMARY HORSEPOWER PER ESTABLISHMENT USING POWER.			PER CENT OF ESTABLISHMENTS USING POWER: 1909	
	1909	1904	1899			1909	1904	1899		
	101	100	76	68.9						
All industries.....					INDUSTRIES WITH OVER 10,000 WAGE EARNERS IN 1909—continued.					
INDUSTRIES WITH OVER 10,000 WAGE EARNERS IN 1909.					Jewelry.....	9	10	10	75.1	
Agricultural implements.....	168	152	119	93.8	Leather goods.....	22	19	18	53.6	
Artificial flowers and feathers and plumes.....	4	9	5	18.2	Leather, tanned, curried, and finished.....	179	129	90	90.2	
Automobiles, including bodies and parts.....	114	62	(1)	89.4	Lime.....	77	73	215	42.0	
Boots and shoes, including cut stock and findings.....	59	42	34	84.8	Liquors, malt.....	254	185	148	96.7	
Boots and shoes, rubber.....	1,177	1,186	1,137	100.0	Locomotives, not made by railroad companies.....	2,194	1,987	(1)	100.0	
Boxes, fancy and paper.....	26	23	17	94.8	Lumber and timber products.....	72	79	59	96.9	
Brass and bronze products.....	123	103	86	84.2	Marble and stone work.....	65	70	58	57.9	
Bread and other bakery products.....	11	13	15	25.0	Mattresses and spring beds.....	27	29	25	69.6	
Brick and tile.....	97	73	55	83.6	Millinery and lace goods.....	8	19	7	64.9	
Butter, cheese, and condensed milk.....	16	15	13	75.7	Mineral and soda waters.....	5	6	9	72.4	
Buttons.....	39	30	21	74.1	Musical instruments, pianos and organs and mixtures.....	97	90	82	84.8	
Canning and preserving.....	33	31	31	64.8	Oil, cottonseed, and cake.....	240	210	200	98.3	
Carpets and rugs, other than rag.....	297	251	211	93.5	Paint and varnish.....	84	81	78	85.0	
Carriages and wagons and materials.....	35	38	137	65.2	Paper and wood pulp.....	1,679	1,437	929	100.0	
Cars and general shop construction and repairs by steam-railroad companies.....	293	174	102	87.5	Paper goods, not elsewhere specified.....	77	63	53	87.1	
Cars and general shop construction and repairs by street-railroad companies.....	87	42	80	76.2	Patent medicines and compounds and druggists' preparations.....	24	23	25	29.5	
Cars, steam-railroad, not including operations of railroad companies.....	949	848	557	93.8	Petroleum, refining.....	694	490	602	88.4	
Cement.....	2,928	1,187	(2)	94.1	Pottery, terra-cotta, and fire-clay products.....	156	140	98	85.5	
Chemicals.....	732	558	265	81.7	Printing and publishing.....	14	10	10	69.6	
Clocks and watches, including cases and materials.....	134	117	77	93.3	Rubber goods, not elsewhere specified.....	391	257	219	100.0	
Clothing, men's, including shirts.....	10	11	10	69.3	Sewing machines, cases, and attachments.....	442	243	194	93.6	
Clothing, women's.....	7	8	10	70.6	Shipbuilding, including boat building.....	46	128	145	67.6	
Coke.....	450	338	276	44.1	Silk and silk goods, including throwsters.....	116	118	121	99.1	
Confectionery.....	32	29	11	56.9	Silverware and plated ware.....	86	87	53	96.2	
Cooperage and wooden goods, not elsewhere specified.....	89	77	62	43.4	Slaughtering and meat packing.....	77	138	114	72.0	
Copper, tin, and sheet-iron products.....	45	34	40	32.5	Smelting and refining, copper.....	4,274	2,068	1,311	97.4	
Cordage and twine and jute and linen goods.....	504	487	350	95.1	Soap.....	89	62	49	75.5	
Corsets.....	41	41	38	80.4	Stoves and furnaces, including gas and oil stoves.....	94	77	(1)	82.9	
Cotton goods, including cotton small wares.....	979	859	787	100.0	Tobacco manufactures.....	45	44	48	4.0	
Cutlery and tools, not elsewhere specified.....	81	74	63	88.2	Turpentine and rosin.....	4	6	6	71.5	
Dyeing and finishing textiles.....	278	259	254	91.1	Wire.....	1,283	1,034	344	100.0	
Electrical machinery, apparatus, and supplies.....	174	148	89	90.5	Wirework, including wire rope and cable.....	46	46	44	71.4	
Fancy articles, not elsewhere specified.....	25	22	18	67.0	Wood, turned and carved.....	53	48	33	86.8	
Fertilizers.....	138	137	107	88.2	Woolen, worsted, and felt goods, and wool hats.....	373	272	193	98.6	
Firearms and ammunition.....	324	446	138	83.3	OTHER INDUSTRIES WITH OVER 20,000 HORSE-POWER IN 1909.					
Flour-mill and gristmill products.....	73	77	71	100.0	Beet sugar.....	966	666	482	100.0	
Food preparations.....	61	52	41	74.9	Belling and hose, woven and rubber.....	489	375	244	91.3	
Foundry and machine-shop products.....	70	62	346	92.3	Coffee and spice, roasting and grinding.....	33	39	38	98.0	
Fur goods.....	5	14	13	33.7	Dyesstuffs and extracts.....	271	224	193	76.6	
Furnishing goods, men's.....	21	18	18	64.8	Explosives.....	345	241	206	96.5	
Furniture and refrigerators.....	85	80	76	82.9	Glucose and starch.....	248	265	218	98.5	
Gas and electric fixtures and lamps and reflectors.....	31	25	27	83.7	Iron and steel forgings.....	163	121	91	97.7	
Gas, illuminating and heating.....	132	97	50	75.1	Iron and steel pipe, wrought.....	765	604	617	96.4	
Glass.....	349	236	160	97.2	Kaolin and ground earths.....	184	133	131	95.8	
Gloves and mittens, leather.....	11	12	11	70.6	Liquors, distilled.....	96	68	58	78.1	
Hats, fur-felt.....	93	101	90	76.2	Malt.....	243	149	100	95.6	
Hosiery and knit goods.....	83	77	69	91.3	Salt.....	261	169	204	74.2	
Ice, manufactured.....	160	150	133	99.3	Smelting and refining, lead.....	998	536	454	96.4	
Iron and steel, blast furnaces.....	5,641	4,091	2,230	100.0	Smelting and refining, zinc.....	740	594	369	100.0	
Iron and steel, steel works and rolling mills.....	4,711	3,993	2,474	100.0	Sugar and molasses, not including beet sugar.....	692	430	311	95.6	
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.....	207	161	133	99.1	Wall plaster.....	139	123	(1)	95.9	

¹ "Carriages and wagons and materials" includes "automobiles, including bodies and parts."² "Lime" includes "cement" and "wall plaster."³ "Foundry and machine-shop products" includes "stoves and furnaces, including gas and oil stoves," and "locomotives, not made by railroad companies."⁴ Includes the two industries shown separately in some tables under the headings "sugar and molasses" and "sugar, refining, not including beet sugar."

Average horsepower per wage earner.—Table 5 shows for 1909, 1904, and 1899 the average horsepower per establishment and per wage earner for all industries combined and for 29 important industries in which practically all of the establishments reported power.

Although 55.9 per cent of the total horsepower was reported by 7 industries in 1909, there is a growing tendency in nearly all branches of manufacturing to increase productivity by means of power machinery. This is indicated by the fact that the average horsepower per wage earner for all manufacturing industries combined increased from 2.1 in 1899 to 2.5 in 1904 and 2.8 in 1909. These averages are based on

the entire number of wage earners, including those in establishments using no power.

The rank of the 29 industries shown in Table 5 on the basis of the average horsepower per wage earner was considerably different from their rank in average horsepower per establishment. The blast-furnace industry, with 31 horsepower per wage earner, ranked first in this respect, and the flour-mill and gristmill industry, with 22 horsepower per wage earner, ranked second. The artificial-ice industry, with 20 horsepower per wage earner, was third, and the paper and wood-pulp industry and the cleaning and polishing of rice were fourth and fifth, respectively.

MANUFACTURES.

Table 5

INDUSTRY.	Census.	AVERAGE HORSEPOWER.		INDUSTRY.	Census.	AVERAGE HORSEPOWER.	
		Per establish- ment. ¹	Per wage earner. ²			Per estab- lish- ment. ¹	Per wage earner. ²
All industries.....	1909 1904 1899	101 100 76	2.8 2.5 2.1	Oil, linseed.....	1909 1904 1899	456 327 177	9.1 7.0 6.4
Agricultural implements.....	1909 1904 1899	168 152 119	2.0 1.9 1.5	Oilecloth and linoleum.....	1909 1904 1899	520 375 302	3.1 2.6 2.3
Beet sugar.....	1909 1904 1899	986 696 482	7.9 9.0 7.3	Paper and wood pulp.....	1909 1904 1899	1,679 1,437 999	17.2 16.6 15.4
Cars, steam-railroad, not including operations of rail- road companies.....	1909 1904 1899	949 848 557	2.3 1.6 1.0	Petroleum, refining.....	1909 1904 1899	694 490 602	6.5 2.7 3.0
Cars, street-railroad, not including operations of railroad companies.....	1909 1904 1899	1,083 504 270	4.2 1.5 1.4	Rice, cleaning and polishing.....	1909 1904 1899	275 214 97	15.8 10.6 11.6
Chemicals.....	1909 1904 1899	732 558 265	9.0 6.7 4.8	Salt.....	1909 1904 1899	281 169 204	5.5 4.2 5.0
Cotton goods, including cotton small wares.....	1909 1904 1899	979 859 767	3.4 3.1 2.6	Saws.....	1909 1904 1899	132 100 67	2.5 1.6 1.7
Dyeing and finishing textiles.....	1909 1904 1899	278 259 254	2.4 2.4 2.3	Shoddy.....	1909 1904 1899	159 129 110	6.8 5.9 5.9
Explosives.....	1909 1904 1899	345 241 206	4.6 5.1 4.3	Slaughtering and meat packing.....	1909 1904 1899	177 138 114	2.3 1.6 1.3
Fertilizers.....	1909 1904 1899	133 137 107	3.5 3.4 3.3	Smelting and refining, copper.....	1909 1904 1899	4,274 2,068 1,311	10.1 6.0 5.4
Flour-mill and gristmill products.....	1909 1904 1899	73 77 71	21.6 19.8 20.8	Smelting and refining, lead.....	1909 1904 1899	998 556 454	3.6 3.4 2.0
Ice, manufactured.....	1909 1904 1899	160 150 133	19.7 19.0 14.6	Smelting and refining, zinc.....	1909 1904 1899	740 594 360	3.2 2.8 2.3
Iron and steel, blast furnaces.....	1909 1904 1899	5,641 4,091 2,230	30.5 22.0 12.7	Sugar and molasses, not including beet sugar ³	1909 1904 1899	692 430 311	11.9 10.4 10.8
Iron and steel, steel works and rolling mills.....	1909 1904 1899	4,711 3,993 2,474	8.8 7.9 6.0	Wire.....	1909 1904 1899	1,255 1,034 344	4.0 5.5 6.2
Oil, cottonseed, and cake.....	1909 1904 1899	240 210 200	11.3 9.7 6.6	Woolen, worsted, and felt goods, and wool hats.....	1909 1904 1899	373 272 193	2.1 2.0 1.9

¹ Based on the number of establishments reporting power.² Based on total number of wage earners in all establishments, including those not reporting power.³ Includes the two industries shown separately in some tables under the headings "sugar and molasses" and "sugar, refining, not including beet sugar."

Of the 29 industries included in the table, there were 8 in all—the blast-furnace, flour-mill and gristmill, artificial-ice, and paper and wood-pulp industries, the cleaning and polishing of rice, the manufacture of sugar and molasses, not including beet sugar, the cotton-seed oil industry, and the smelting and refining of copper—that had an average of more than 10 horsepower per wage earner in 1909. In each of these industries the processes are largely mechanical, requiring the minimum amount of labor. On the other hand, in 6 of the industries shown in the table—the manufacture of agricultural implements, the construction of steam-railroad cars, the dyeing and finishing of textiles, the manufacture of saws, slaughtering and

meat packing, and the manufacture of woolen, worsted, and felt goods, and wool hats—the average per wage earner was less than three horsepower. In but one of the industries listed, the manufacture of wire, was the average horsepower per wage earner less in 1909 than in 1899.

Summary by states and geographic divisions: 1909.—The detailed statistics of power for all manufacturing industries combined in each state and geographic division as reported for 1909 are given in General Table IV. The following table summarizes the statistics on the subject contained in General Table IV and in addition gives percentages showing the relative importance of the different kinds of power.

POWER USED.

341

HORSEPOWER USED IN MANUFACTURING INDUSTRIES, BY GEOGRAPHIC DIVISIONS AND STATES: 1909.

Table 6

DIVISION AND STATE.	PRIMARY HORSEPOWER.												HORSEPOWER OF ELECTRIC MOTORS.	
	Total.	Owned by establishments reporting.				Rented.		Per cent distribution.					Total (including motors run by pur- chased cur- rent.)	Run by current generated by estab- lishment.
		Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.	Steam.	Gas.	Water.	Electric, rented.	Other (owned and rented).		
United States.....	18,675,376	14,199,339	751,186	1,822,888	29,293	1,749,031	123,639	76.0	4.0	9.8	9.4	0.8	4,817,140	3,068,109
GEOGRAPHIC DIVISIONS:														
New England.....	2,715,121	1,656,911	41,801	757,332	2,055	218,642	38,380	61.0	1.5	27.9	8.1	1.5	663,143	444,501
Middle Atlantic.....	5,531,502	4,151,662	274,274	470,488	11,736	568,723	54,619	75.1	5.0	8.5	10.3	1.2	1,737,236	1,168,513
East North Central.....	4,382,070	3,491,418	283,450	208,441	4,766	375,876	18,119	79.7	6.5	4.8	8.6	0.5	1,297,447	921,571
West North Central.....	1,101,990	838,988	57,434	86,330	939	115,002	3,297	76.1	5.2	7.8	10.4	0.4	266,534	151,532
South Atlantic.....	1,832,001	1,431,423	36,441	183,158	5,321	171,146	4,512	78.1	2.0	10.0	9.3	0.5	343,393	172,247
East South Central.....	1,036,560	953,511	12,270	29,315	1,690	38,580	1,104	92.0	1.2	2.8	3.7	0.3	108,409	69,829
West South Central.....	873,350	805,640	29,291	3,108	2,513	31,807	991	92.2	3.4	0.4	3.6	0.4	78,893	47,086
Mountain.....	400,766	306,786	4,188	21,543	224	66,956	1,060	76.5	1.0	5.4	16.7	0.3	113,984	47,028
Pacific.....	802,016	563,000	12,037	63,173	49	162,239	1,458	70.2	1.5	7.9	20.2	0.2	268,101	45,802
NEW ENGLAND:														
Maine.....	459,599	168,595	3,933	258,392	179	27,203	1,297	36.7	0.9	56.2	5.9	0.3	54,266	27,063
New Hampshire.....	293,091	139,128	1,238	128,011	30	21,209	4,375	47.3	0.4	43.5	7.2	1.5	45,351	24,142
Vermont.....	159,445	64,252	2,160	79,062	415	12,917	639	40.3	1.4	49.6	8.1	0.7	21,233	8,316
Massachusetts.....	1,175,071	834,701	18,326	186,516	895	109,996	24,637	71.0	1.6	15.9	9.4	2.2	402,492	292,496
Rhode Island.....	226,740	175,293	3,300	31,417	39	13,697	2,994	77.3	1.5	13.9	6.0	1.3	42,130	28,423
Connecticut.....	400,275	274,942	12,844	73,034	497	33,620	4,438	68.7	3.2	18.5	8.4	1.2	97,671	64,051
MIDDLE ATLANTIC:														
New York.....	1,997,662	1,080,877	99,899	395,618	3,553	389,945	27,740	54.1	5.0	19.8	19.5	1.6	689,976	300,031
New Jersey.....	612,293	529,668	20,867	19,676	180	33,157	8,745	86.5	3.4	3.2	5.4	1.5	152,475	149,318
Pennsylvania.....	2,921,547	2,541,117	153,508	55,194	7,973	145,621	18,134	87.0	5.3	1.9	5.0	0.9	864,785	719,164
EAST NORTH CENTRAL:														
Ohio.....	1,583,155	1,362,134	103,801	16,107	1,586	93,592	5,935	86.0	6.6	1.0	5.9	0.5	417,844	324,252
Indiana.....	633,377	448,528	109,105	7,893	599	65,548	1,704	70.8	17.2	1.2	10.3	0.4	233,193	167,645
Illinois.....	1,013,071	838,199	37,025	12,681	1,433	117,007	6,716	82.7	3.7	1.3	11.5	0.8	398,621	281,614
Michigan.....	598,288	465,520	13,988	42,019	16	74,270	2,475	77.8	2.3	7.0	12.4	0.4	133,064	58,794
Wisconsin.....	554,179	377,037	19,531	129,731	1,132	25,459	1,289	68.0	3.5	23.4	4.6	0.4	114,725	80,266
WEST NORTH CENTRAL:														
Minnesota.....	207,670	199,777	7,174	59,570	25	30,297	827	67.1	2.4	20.0	10.2	0.3	52,212	21,915
Iowa.....	155,384	121,882	8,025	6,411	147	18,463	456	78.4	5.2	4.1	11.9	0.4	40,736	22,273
Missouri.....	340,467	280,489	11,159	3,783	5	44,056	1,020	82.4	3.3	1.1	12.9	0.3	106,641	62,885
North Dakota.....	13,196	10,170	1,304	530	-----	1,164	28	77.1	9.9	4.0	8.8	0.2	1,698	534
South Dakota.....	17,666	12,257	2,784	939	-----	1,683	3	69.4	15.8	5.3	9.5	(1)	2,084	401
Nebraska.....	64,466	44,806	4,408	7,438	76	7,530	210	69.5	6.8	11.5	11.7	0.4	15,942	8,412
Kansas.....	213,141	169,607	22,580	7,706	686	11,809	753	79.6	10.6	3.6	5.5	0.7	46,921	35,112
SOUTH ATLANTIC:														
Delaware.....	52,779	42,266	766	5,195	-----	4,502	50	80.1	1.5	9.8	8.5	0.1	17,910	13,408
Maryland.....	218,244	181,326	5,736	12,074	1,069	17,108	931	83.1	2.6	5.5	7.8	0.9	44,921	27,813
District of Columbia.....	16,563	12,168	1,073	775	43	2,433	70	73.5	6.5	4.7	14.7	0.7	4,527	2,094
Virginia.....	283,928	221,303	3,664	45,155	38	13,356	412	77.9	1.3	15.9	4.7	0.2	42,043	28,687
West Virginia.....	217,496	184,591	16,705	10,617	-----	5,330	253	84.9	7.7	4.9	2.5	0.1	28,543	23,213
North Carolina.....	378,556	271,944	2,356	41,926	1,035	60,044	1,251	71.8	0.6	11.1	15.9	0.6	86,002	25,958
South Carolina.....	276,378	193,052	1,264	38,497	2,400	41,130	35	69.9	0.5	13.9	14.9	0.9	67,620	26,490
Georgia.....	298,241	240,264	3,380	28,748	536	23,890	1,423	80.6	1.1	9.6	8.0	0.7	44,264	20,374
Florida.....	89,816	84,508	1,497	171	200	3,353	87	94.1	1.7	0.2	3.7	0.3	7,563	4,210
EAST SOUTH CENTRAL:														
Kentucky.....	230,224	207,591	4,724	5,377	915	11,314	303	90.2	2.1	2.3	4.9	0.5	31,268	19,954
Tennessee.....	242,277	215,338	1,853	9,777	4	14,666	639	88.9	0.8	4.0	6.1	0.3	29,586	14,920
Alabama.....	357,837	328,275	4,616	13,923	732	10,104	187	91.7	1.3	3.9	2.8	0.3	39,928	29,824
Mississippi.....	206,222	202,307	1,077	238	39	2,496	65	98.1	0.5	0.1	1.2	(1)	7,627	5,131
WEST SOUTH CENTRAL:														
Arkansas.....	173,088	168,152	1,374	674	52	2,581	255	97.1	0.8	0.4	1.5	0.2	7,417	4,836
Louisiana.....	346,652	331,370	3,496	75	2,401	9,077	233	95.6	1.0	(1)	2.6	0.8	27,139	18,042
Oklahoma.....	71,139	56,643	8,676	472	-----	5,281	67	79.6	12.2	0.7	7.4	0.1	7,887	2,606
Texas.....	282,471	249,475	15,745	1,887	60	14,868	436	88.3	5.6	0.7	5.3	0.2	36,450	21,582
MOUNTAIN:														
Montana.....	90,402	49,654	223	13,646	-----	26,504	375	54.9	0.2	15.1	29.3	0.4	27,301	797
Idaho.....	42,804	35,529	242	2,407	-----	4,606	20	83.0	0.6	5.6	10.8	(1)	8,409	3,803
Wyoming.....	7,628	6,467	182	465	-----	514	-----	84.8	2.4	6.1	6.7	-----	501	287
Colorado.....	154,615	135,645	1,464	1,426	105	15,874	101	87.7	0.9	0.9	10.3	0.1	33,944	20,070
New Mexico.....	15,465	11,781	365	74	-----	3,245	-----	76.2	2.4	0.5	21.0	-----	4,586	1,341
Arizona.....	39,140	34,193	1,285	129	19	3,314	200	87.4	3.3	0.3	8.5	0.6	15,100	11,786
Utah.....	42,947	28,984	226	2,997	100	10,592	48	67.5	0.5	7.0	24.7	0.3	15,402	4,810
Nevada.....	7,765	4,533	201	399	-----	2,307	325	55.4	2.6	5.1	29.7	4.2	6,441	4,134
PACIFIC:														
Washington.....	297,897	257,230	1,494	8,065	19	30,951	138	86.3	0.5	2.7	10.4	0.1	43,615	12,664
Oregon.....	175,019	112,244	428	47,436	-----	14,811	98	64.1	0.2	27.1	8.5	0.1	20,802	5,991
California.....	329,100	193,526	10,115	7,670	30	116,537	1,222	58.8	3.1	2.3	35.4	0.4	143,684	27,147

1 Less than one-tenth of 1 per cent.

MANUFACTURES.

Of the total horsepower reported for 1909 (18,675,376), 5,531,502 horsepower, or 29.6 per cent, is shown for the Middle Atlantic division and 4,382,070, or 23.5 per cent, for the East North Central. The New England division is next in order of importance, with 2,715,121 horsepower. These three divisions together had over two-thirds of the entire horsepower of the manufacturing industries of the United States.

The four northern divisions taken together—the New England, Middle Atlantic, East North Central, and West North Central—reported 13,730,683 horsepower as used in manufacturing industries in 1909, or 73.5 per cent of the total for the United States. The three southern divisions—the South Atlantic, East South Central, and West South Central—together reported 3,741,911 horsepower, or 20 per cent of the total, and the West, comprising the Mountain and Pacific divisions, reported 1,202,782 horsepower, or 6.4 per cent of the total. The North reported a smaller percentage of the total horsepower of the country than of the total value of manufactured products, while the opposite was the case with the South and West.

The rank of the states in 1909, with respect to the amount of power used in manufacturing industries, was somewhat different from that with respect to value of products and other leading items in the statistics of manufactures. Although New York ranked first among the states in value of products, average number of wage earners, and various other items, Pennsylvania greatly outranked New York in the amount of power used in manufacturing industries. New York stood second in amount of power used, Ohio third, Massachusetts fourth, and Illinois fifth. The relative amount of power used in any state is largely determined by the character of the industries predominant in the state.

The relative importance of the different kinds of power in the several divisions and states is dependent in part upon the character of the industries, and in part upon the location of the division or state with reference to supplies of coal, petroleum, and natural gas, and to the availability of water power. The percentages given in Table 6 show that there are very marked differences among the several states and divisions of the country in respect to the relative importance of the different kinds of primary power used in manufacturing establishments. Of all the geographic divisions, New England showed in 1909 the lowest proportion for steam power (61 per cent of the total) and the highest proportion for water power (27.9 per cent). The percentage for steam power was also relatively low in the Pacific division (70.2), but in this division rented electric power was much more important than water power. It should be borne in mind, however, that, as already stated, much of the rented electric power in all divisions—most of it in the Pacific division—is derived in the first place from water wheels. Rented electric power was also relatively

important in the Mountain, West North Central, and Middle Atlantic divisions, and water power in the South Atlantic and Middle Atlantic divisions, but in the East South Central and West South Central divisions more than nine-tenths of the total power used in manufacturing establishments in 1909 was that of steam engines, and in the East North Central division the corresponding proportion was nearly four-fifths.

Among the individual states, Maine showed the lowest percentage for steam power (36.7) and the highest percentage for water power (56.2). In Vermont and New Hampshire also steam power constituted less than half of the total primary power, water power being very important. In New York, which ranked second among the states in the use of power in manufacturing industries, only 54.1 per cent of the primary power was generated by steam engines, while 19.8 per cent was that of water wheels owned by the establishments using the power, and 19.5 per cent was rented electric power. In a large majority of the states, however, steam power constituted 70 per cent or more of the total, and in several the proportion exceeded 90 per cent. Water power represented one-fifth or more of the total primary horsepower used in manufacturing in Maine, New Hampshire, Vermont, Wisconsin, Minnesota, and Oregon. Rented electric power was relatively most important in California, where it constituted, in 1909, 35.4 per cent of the total primary power. In New York, North Carolina, Montana, New Mexico, Utah, and Nevada also the proportion of rented electric power was relatively high, in each case exceeding 15 per cent of the total.

The horsepower of gas and other internal-combustion engines was relatively most important in Indiana, where it constituted 17.2 per cent of the total primary power, but in South Dakota, Oklahoma, and Kansas also such power constituted more than 10 per cent of the total.

In absolute amount of water power New York led in 1909, with 395,618 horsepower, followed by Maine, Massachusetts, Wisconsin, and New Hampshire, in the order named, each of these states reporting more than 100,000 horsepower of this kind. In absolute amount of rented electric power New York also led, with 389,945 horsepower, followed by Pennsylvania, Illinois, California, and Massachusetts, in the order named, each reporting more than 100,000 horsepower. In the use of gas and similar engines in manufacturing industries, Pennsylvania ranked first, with 153,508 horsepower, followed by Indiana and Ohio, each of which had more than 100,000 horsepower, and by New York, which had nearly 100,000, while in but one other state (Illinois) did the horsepower of such engines exceed 25,000.

Comparative statistics of horsepower, by states: 1869-1909.—As to most of the items derived from the manufactures census, comparisons for states and geographic divisions can not properly be made between all the censuses from 1869 to 1909 for the reason

that the earlier censuses, as more fully explained in Chapter I, included the hand trades and neighborhood industries, which were excluded at the later censuses. With respect to horsepower, however, approximately exact comparisons can be made for each census back to 1869, for the reason that the amount of horsepower used in the hand trades and neighborhood industries was so small that it had little effect upon the totals for the earlier censuses. Table 8, on the next page,

shows, for each state and geographic division, the total horsepower used in manufacturing industries as reported at each census from 1869 to 1909, and the amount of each of the principal kinds of power. It also shows, for each decennial or quinquennial period, the percentage of increase in each kind of power. Table 7, which follows, shows the percentage which each kind of power formed of the total primary power in each division at each census.

Table 7

KIND OF POWER.

	Census.	PER CENT OF TOTAL PRIMARY POWER—UNITED STATES AND GEOGRAPHIC DIVISIONS: 1869-1909									
		United States.	New England division.	Middle Atlantic division.	East North Central division.	West North Central division.	South Atlantic division.	East South Central division.	West South Central division.	Mountain division.	Pacific division.
Steam.....	1909	76.0	61.0	75.1	79.7	76.1	73.1	92.0	92.2	76.5	79.2
	1904	80.3	62.8	78.2	86.4	82.6	84.2	94.8	90.5	84.7	78.9
	1899	80.6	61.0	80.6	88.2	84.7	82.3	93.5	97.5	74.5	80.5
	1889	77.1	54.8	80.3	86.8	84.1	68.2	84.1	96.1	84.7	84.4
	1879	64.1	43.1	66.6	80.5	67.8	50.5	72.0	92.0	45.8	79.0
	1869	51.8	29.7	50.3	71.8	70.6	33.4	62.7	92.3	50.7	61.4
Water.....	1909	9.8	27.9	8.5	4.8	7.8	10.0	2.8	0.4	5.4	7.9
	1904	12.2	31.0	12.1	6.2	8.4	11.2	3.2	0.6	7.6	7.1
	1899	14.4	34.5	13.1	7.1	8.6	14.7	4.9	0.7	14.8	11.2
	1889	21.1	43.0	17.1	11.7	14.6	31.1	11.5	3.3	14.3	12.0
	1879	35.9	56.9	35.4	19.5	32.2	49.5	24.0	8.0	51.2	38.0
	1869	48.2	70.3	49.7	28.2	29.4	66.6	27.3	7.7	43.3	38.6
Electric (rented) ¹	1909	9.4	8.1	10.3	8.6	10.4	9.3	3.7	2.6	16.7	20.2
	1904	3.3	2.8	3.3	3.0	4.4	2.4	1.1	1.5	5.0	12.1
	1899	1.8	1.8	2.4	1.3	2.4	0.6	0.7	1.0	3.3	5.3
Other ²	1909	4.8	3.0	6.2	7.0	5.6	2.5	1.5	3.8	1.4	1.7
	1904	4.2	3.4	6.4	4.3	4.5	2.2	0.9	1.4	2.7	2.5
	1899	3.2	2.7	4.0	3.4	4.3	2.4	0.9	0.8	2.5	2.1
	1889	1.7	2.3	2.1	1.5	1.2	0.7	0.5	0.5	1.0	2.6

¹ Rented electric power not reported separately for 1889; no electric power of any kind reported for 1879 or 1869.

² No power other than steam and water power reported for 1879 or 1869.

In seven of the nine geographic divisions the relative importance of water power directly used by manufacturing establishments declined steadily from 1879 to 1909, a slight gain appearing in the Pacific division between 1904 and 1909, and in the Mountain division between 1889 and 1899. This decrease in the importance of water power was at first accompanied by an increase in the relative importance of steam power, but for the period 1904-1909 every division shows a decrease in the proportion represented by steam power and a great increase in that represented by rented electric power, which was first reported at the census of 1899. As already stated, much of the rented electric power is derived originally from water wheels. The proportion of steam power reached its maximum in the Middle Atlantic, Mountain, and Pacific divisions in 1889; in the East North Central, West North Central, and West South Central divisions in 1899, and in the New England, South Atlantic, and East South Central divisions in 1904.

The most conspicuous changes with reference to the relative importance of water power in manufacturing industries took place in the South Atlantic and New England divisions. In the former, water power constituted 66.6 per cent of the total power used in manufacturing industries in 1869 as compared with 10 per cent in 1909, while in the New England division the proportion fell from 70.3 per cent in 1869 to 27.9 per cent in 1909.

The manner in which these changes in the relative importance of the different kinds of power in the sev-

eral divisions have come about may be readily seen by comparing the increases and decreases in the several kinds of power from census to census in each division, as shown in Table 8.

It will be seen that in every division each census has shown an increase in steam power over the preceding census (save only that in the Mountain division there was a decrease between 1869 and 1879), and that this increase has in almost every case been more rapid than the increase in water power. In two of the divisions, the East South Central and West South Central, the water power used by manufacturing industries was less in 1909 than in 1869; and in the Middle Atlantic and West South Central divisions less water power was used in 1909 than in 1904. In the New England and Pacific divisions the increase in the utilization of water power was continuous throughout the period from 1869 to 1909, but in all other divisions decreases were shown at one or more censuses.

In every division rented electric power increased several fold between 1899 and 1909, and even between 1904 and 1909 it more than trebled in eight of the nine divisions. The amount of gas engine and "other" power reported in 1889 was insignificant in every division, so that very high percentages of increase appear for the period 1889-1899. For the decade 1899-1909 the most conspicuous percentage of increase in this item is shown for the West South Central division, but the most conspicuous absolute increase took place in the East North Central and Middle Atlantic divisions.

MANUFACTURES.

HORSEPOWER USED IN MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1869-1909.

Table 8

DIVISION AND STATE.	Census.	PRIMARY HORSEPOWER.					Electric horse-power, owned and rented.	PER CENT OF INCREASE. ¹					
		Total.	Steam engines. ²	Water wheels and motors. ³	Gas engines and "other." ⁴	Electric, rented.		Period.	Total.	Steam.	Water.	Gas and "other."	Electric, owned and rented.
UNITED STATES	1909	18,675,376	14,199,339	1,822,888	904,118	1,749,031	4,817,140	1899-1909	84.9	74.4	25.4	181.1	877.2
	1904	13,487,707	10,825,348	1,647,880	572,890	441,589	1,592,475	1904-1909	38.5	31.2	10.6	57.8	202.5
	1899	10,097,893	8,139,579	1,454,112	321,640	182,562	492,938	1899-1904	33.6	33.0	13.3	78.1	223.1
	1889	5,938,635	4,581,305	1,255,045	102,285	—	15,569	1889-1899	70.0	77.7	15.9	214.5	3,066.1
	1879	3,410,837	2,183,458	1,225,379	—	—	—	1879-1889	74.1	109.6	2.4	—	—
	1869	2,346,142	1,215,711	1,130,431	—	—	—	1869-1879	45.4	79.8	8.4	—	—
GEOGRAPHIC DIVISIONS													
NEW ENGLAND	1909	2,715,121	1,656,911	757,332	82,236	218,642	663,143	1899-1909	51.5	51.5	22.3	71.0	905.5
	1904	2,125,815	1,335,547	659,071	72,452	58,745	187,194	1904-1909	27.7	24.1	14.9	12.5	254.3
	1899	1,792,342	1,093,431	619,209	48,059	31,013	65,951	1899-1904	18.6	22.1	6.4	50.7	183.8
	1889	1,156,877	633,682	497,031	26,194	—	3,094	1889-1899	54.9	72.6	24.6	83.6	2,031.6
	1879	743,106	320,201	422,905	—	—	—	1879-1889	55.7	97.9	17.5	—	—
	1869	514,730	152,704	362,026	—	—	—	1869-1879	44.4	109.7	16.8	—	—
MIDDLE ATLANTIC	1909	5,531,502	4,151,662	470,483	340,629	568,723	1,737,236	1899-1909	76.2	64.2	14.7	170.4	763.4
	1904	4,256,264	3,326,040	514,951	272,685	141,588	638,209	1904-1909	30.0	24.8	8.6	24.9	172.2
	1899	3,139,128	2,528,714	410,173	125,985	74,256	201,201	1899-1904	35.6	31.5	25.5	116.4	217.2
	1889	1,939,042	1,506,289	331,964	40,793	—	5,096	1889-1899	61.9	61.4	23.6	208.8	3,848.2
	1879	1,066,409	709,719	356,690	—	—	—	1879-1889	81.8	120.7	-6.9	—	—
	1869	756,420	380,350	376,070	—	—	—	1869-1879	41.0	86.6	-5.2	—	—
EAST NORTH CENTRAL	1909	4,382,070	3,491,418	208,441	206,335	375,876	1,297,447	1899-1909	82.4	64.9	21.8	272.9	942.0
	1904	3,120,369	2,097,139	194,371	183,171	95,188	432,162	1904-1909	40.4	29.4	7.0	130.0	200.2
	1899	2,401,808	2,117,890	171,077	82,158	30,693	124,520	1899-1904	29.9	27.4	13.9	62.1	247.1
	1889	1,327,784	1,182,117	155,245	20,422	—	3,839	1889-1899	80.9	83.8	10.2	302.3	3,143.6
	1879	803,033	650,386	157,647	—	—	—	1879-1889	64.3	77.1	-1.5	—	—
	1869	530,810	380,984	149,826	—	—	—	1869-1879	52.2	70.7	5.2	—	—
WEST NORTH CENTRAL	1909	1,101,990	838,988	86,330	61,670	115,002	268,534	1899-1909	82.1	63.6	66.0	139.1	746.8
	1904	753,700	622,889	63,659	34,176	32,976	80,029	1904-1909	46.2	34.7	35.6	80.4	233.0
	1899	605,098	512,783	51,999	25,797	14,519	31,476	1899-1904	24.6	21.5	22.4	32.5	154.3
	1889	410,231	345,108	60,005	5,118	—	1,256	1889-1899	47.5	48.6	-13.3	404.0	2,400.1
	1879	220,647	149,524	71,123	—	—	—	1879-1889	85.9	130.8	-15.6	—	—
	1869	126,532	89,274	37,258	—	—	—	1869-1879	74.4	67.5	90.9	—	—
SOUTH ATLANTIC	1909	1,832,001	1,431,423	183,158	46,274	171,146	343,393	1899-1909	115.3	104.4	46.7	124.9	1,315.6
	1904	1,221,040	1,029,711	137,018	26,397	28,914	100,465	1904-1909	50.0	39.1	33.7	75.3	241.8
	1899	851,050	700,451	124,830	20,573	5,196	24,257	1899-1904	43.5	46.9	9.8	28.3	314.2
	1889	468,069	319,684	145,397	3,228	—	708	1889-1899	81.8	119.3	-14.1	537.3	3,326.1
	1879	294,188	148,618	145,568	—	—	—	1879-1889	59.1	114.9	-0.1	—	—
	1869	209,814	70,085	139,729	—	—	—	1869-1879	40.2	112.1	4.2	—	—
EAST SOUTH CENTRAL	1909	1,036,580	953,511	29,315	15,154	38,580	108,409	1899-1909	101.9	98.6	16.8	239.5	1,027.0
	1904	753,928	714,636	24,193	7,039	8,060	28,757	1904-1909	37.5	23.4	21.2	115.3	277.0
	1899	513,425	480,021	25,107	4,464	3,833	9,619	1899-1904	46.8	48.9	-3.6	57.7	199.0
	1889	304,291	267,978	34,850	1,463	—	260	1889-1899	68.7	79.1	-28.0	205.1	3,599.6
	1879	152,907	110,085	42,822	—	—	—	1879-1889	99.0	143.4	-18.6	—	—
	1869	108,772	68,154	40,618	—	—	—	1869-1879	40.6	61.5	5.4	—	—
WEST SOUTH CENTRAL	1909	573,350	805,640	3,108	32,795	31,807	78,893	1899-1909	119.7	107.9	12.6	952.1	1,265.4
	1904	553,717	536,453	3,236	7,755	8,273	20,152	1904-1909	57.2	50.2	-4.0	322.9	291.5
	1899	397,471	387,602	3,117	3,992	5,778	5,651	1899-1904	39.8	38.4	17.2	148.8	248.8
	1889	136,992	131,705	4,552	735	—	—	1889-1899	190.1	194.3	-39.4	324.1	787.6
	1879	57,613	52,991	4,622	—	—	—	1879-1889	137.8	145.5	-1.5	—	—
	1869	45,756	42,239	3,617	—	—	—	1869-1879	25.9	25.5	31.4	—	—
MOUNTAIN	1909	400,766	306,786	21,543	5,481	66,956	113,984	1899-1909	225.8	213.8	18.6	70.8	1,233.9
	1904	241,825	204,931	18,319	6,470	12,105	35,419	1904-1909	65.7	49.7	17.6	-15.3	221.8
	1899	123,012	97,772	18,161	3,048	4,031	8,545	1899-1904	96.6	109.6	0.9	112.3	314.5
	1889	47,391	40,123	6,779	489	—	172	1889-1899	159.6	143.7	167.9	523.3	4,868.0
	1879	17,631	8,719	8,712	—	—	—	1879-1889	178.3	382.3	-22.2	—	—
	1869	16,833	9,465	7,292	—	—	—	1869-1879	1.1	-12.9	19.5	—	—
PACIFIC	1909	802,018	563,000	63,173	13,544	162,299	208,101	1899-1909	192.1	154.8	105.1	61.1	863.9
	1904	480,049	359,002	32,562	12,745	55,740	70,088	1904-1909	74.3	66.8	94.0	6.3	196.9
	1899	274,559	220,925	30,796	8,400	14,420	21,589	1899-1904	67.6	62.5	5.7	51.6	224.6
	1889	148,018	124,953	19,222	3,843	—	493	1889-1899	85.5	76.8	60.2	118.8	4,279.1
	1879	50,905	35,615	15,290	—	—	—	1879-1889	190.8	250.8	25.7	—	—
	1869	36,470	22,375	14,065	—	—	—	1869-1879	39.6	59.2	8.5	—	—
NEW ENGLAND.													
Maine	1909	459,599	168,595	258,392	5,409	27,203	54,266	1899-1909	77.3	88.9	62.7	49.6	461.8
	1904	343,627	126,818	203,004	5,654	8,061	26,587	1904-1909	33.7	32.9	27.2	-4.3	104.1
	1899	259,232	89,257	158,788	3,615	7,572	9,659	1899-1904	32.6	42.1	27.9	56.4	175.3
	1889	150,317	42,796	104,602	2,919	—	191	1899-1899	72.5	108.6	51.8	23.8	4,937.1
	1879	100,476	20,759	79,717	—	—	—	1879-1889	49.6	106.2	31.2	—	—
	1869	79,573	9,465	70,108	—	—	—	1869-1879	26.3	119.3	13.7	—	—
New Hampshire	1909	293,991	139,128	128,011	5,643	21,209	45,351	1899-1909	46.3	54.8	21.1	68.2	1,206.6
	1904	218,344	102,439	100,274	10,618	5,013	12,301	1904-1909	34.6	35.8	27.7	-16.9	284.8
	1899	200,975	89,905	105,711	3,355	2,004	3,471	1899-1904	8.6	13.9	-5.1	216.5	244.4
	1889	116,788	46,888	68,842	1,053	—	42	1899-1899	72.1	91.7	53.6	217.1	—
	1879	87,750	18,595	69,155	—	—	—	1879-1889	33.1	152.2	-0.5	—</td	

POWER USED.

345

HORSEPOWER USED IN MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1869-1909—Continued.

Table 8—Continued.

DIVISION AND STATE.	Census.	PRIMARY HORSEPOWER.					Electric horse- power, owned and rented.	PER CENT OF INCREASE. ¹						
		Total.	Steam engines. ²	Water wheels and motors. ³	Gas engines ⁴ and "other." ⁵	Electric, rented.		Period.	Total.	Steam.	Water.	Gas and "other."	Electric, owned and rented.	
NEW ENGLAND—Con.														
Massachusetts.....	1909	1,175,071	834,701	186,516	43,858	109,996	402,492	1899-1909	47.6	44.8	2.5	81.1	1,126.1	
	1904	938,007	690,467	183,427	37,040	27,073	91,012	1904-1909	25.3	20.9	1.7	14.4	342.2	
	1899	796,061	576,525	181,907	24,220	13,409	32,826	1893-1904	17.8	19.8	0.8	52.9	177.2	
	1889	515,570	340,774	158,932	15,864	—	2,327	1889-1899	54.1	69.2	14.5	52.7	1,310.7	
	1879	309,759	171,397	138,362	—	—	—	1879-1889	66.4	66.5	14.9	—	—	
	1869	184,336	78,502	105,834	—	—	—	1869-1879	68.0	118.3	30.7	—	—	
Rhode Island.....														
	1909	226,740	175,293	31,417	6,333	13,697	42,130	1899-1909	47.6	51.5	—6.1	780.7		
	1904	181,017	140,322	29,231	5,649	5,815	15,477	1904-1909	25.3	24.9	12.1	172.2		
	1899	153,619	115,735	28,171	6,744	2,963	4,895	1899-1904	17.8	21.2	—16.2	216.2		
	1889	112,654	83,477	27,197	1,980	—	205	1889-1899	36.4	38.6	3.6	246.6	1,559.3	
	1879	63,575	41,335	22,240	—	—	—	1879-1889	77.2	102.0	22.3	—	—	
	1869	42,027	23,540	18,481	—	—	—	1869-1879	51.3	75.5	20.3	—	—	
Connecticut.....														
	1909	400,275	274,942	73,934	17,779	33,620	97,671	1899-1909	56.2	54.6	10.0	150.9		
	1904	304,204	218,668	66,808	10,495	8,233	34,579	1904-1909	31.6	25.7	10.7	69.4		
	1899	256,331	177,819	67,211	7,086	4,215	12,925	1899-1904	18.7	23.0	—0.6	45.1		
	1889	168,028	96,178	63,417	3,433	—	205	1889-1899	57.2	64.9	6.0	106.4		
	1879	118,232	57,027	61,205	—	—	—	1879-1889	37.9	68.7	3.6	—		
	1869	80,374	25,979	54,395	—	—	—	1869-1879	47.1	119.5	12.5	—		
MIDDLE ATLANTIC.														
New York.....	1909	1,097,662	1,030,877	395,618	131,222	389,945	689,976	1899-1909	81.6	63.8	18.0	120.0		
	1904	1,516,592	850,407	446,134	124,677	95,284	222,111	1904-1909	31.7	27.1	—11.3	5.2		
	1899	1,099,931	659,702	335,411	57,050	47,768	77,598	1899-1904	37.9	33.0	118.5	196.2		
	1889	774,373	513,560	231,959	28,854	—	2,447	1889-1899	42.0	28.5	44.6	97.7		
	1879	454,143	284,795	210,348	—	—	—	1879-1889	70.5	114.7	5.7	—		
	1869	334,363	126,107	208,266	—	—	—	1869-1879	35.8	86.2	5.3	—		
New Jersey.....	1909	612,293	529,668	19,676	29,792	33,157	182,475	1899-1909	89.9	58.3	—2.4	76.2		
	1904	436,274	386,770	18,197	20,704	10,603	69,301	1904-1909	40.3	36.9	8.1	43.9		
	1899	322,503	281,306	20,161	16,910	4,126	15,857	1899-1904	33.3	37.5	—9.7	22.4		
	1889	180,042	158,718	17,543	3,781	—	457	1889-1899	79.1	77.2	14.9	347.2		
	1879	98,858	72,792	27,066	—	—	—	1879-1889	80.3	118.0	—35.2	3,156.1		
	1869	58,139	32,307	25,832	—	—	—	1869-1879	71.8	123.3	4.8	—		
Pennsylvania.....	1909	2,921,547	2,541,117	55,194	179,615	145,621	804,755	1899-1909	70.2	60.9	1.1	245.2		
	1904	2,302,398	2,088,773	50,620	127,804	35,701	346,797	1904-1909	26.9	21.7	9.0	41.1		
	1899	1,716,694	1,587,708	54,601	52,025	22,362	107,746	1899-1904	34.1	31.5	—7.3	144.7		
	1889	984,627	894,007	82,462	8,158	—	2,162	1889-1899	74.3	77.6	—33.8	537.7		
	1879	512,408	402,132	110,276	—	—	—	1879-1889	92.2	122.3	—25.2	—		
	1869	363,918	221,936	141,982	—	—	—	1869-1879	40.8	81.2	—22.3	—		
EAST NORTH CENTRAL.														
Ohio.....	1909	1,583,155	1,362,134	16,107	111,322	93,592	417,844	1899-1909	102.0	86.1	—9.8	344.5		
	1904	1,116,932	1,028,665	18,149	46,959	23,159	144,467	1904-1909	41.7	32.4	—11.3	137.1		
	1899	783,665	732,008	17,848	25,043	8,768	42,157	1899-1904	42.5	40.5	1.7	87.5		
	1889	417,078	382,301	27,342	7,435	—	1,705	1899-1899	87.9	91.5	—34.7	236.8		
	1879	261,143	222,502	38,641	—	—	—	1879-1889	59.7	71.8	—29.2	—		
	1869	174,323	129,577	44,746	—	—	—	1869-1879	49.8	71.7	—13.6	—		
Indiana.....	1909	633,377	448,528	7,893	111,408	65,548	233,193	1899-1909	94.3	51.1	—34.0	681.0		
	1904	380,758	336,932	9,635	25,059	9,082	33,582	1904-1909	66.3	33.1	—18.5	344.6		
	1899	325,919	296,926	11,964	14,265	2,764	7,903	1899-1904	32.6	13.5	—12.0	324.9		
	1889	190,575	172,506	16,181	1,888	—	323	1889-1899	71.0	72.1	—26.1	655.6		
	1879	131,770	109,960	21,810	—	—	—	1879-1889	44.6	56.9	—25.8	—		
	1869	100,369	76,851	23,518	—	—	—	1869-1879	31.3	43.1	—7.3	—		
Illinois.....	1909	1,013,071	838,199	12,691	45,174	117,007	398,621	1899-1909	81.1	65.2	9.3	62.5		
	1904	741,555	651,578	15,030	32,969	41,978	165,265	1904-1909	36.6	28.6	—15.6	37.0		
	1899	559,347	507,471	11,614	27,791	12,471	49,235	1899-1904	32.6	28.4	29.4	141.2		
	1889	285,727	261,865	15,992	7,870	—	939	1889-1899	95.8	93.8	—27.4	233.1		
	1879	144,288	126,843	17,445	—	—	—	1879-1889	98.0	106.4	—3.3	5,143.3		
	1869	86,044	73,081	12,953	—	—	—	1869-1879	67.7	73.5	34.7	—		
Michigan.....	1909	598,288	465,520	42,019	16,479	74,270	133,064	1899-1909	62.4	46.0	15.0	85.8		
	1904	440,890	376,090	39,342	13,047	12,411	39,970	1904-1909	35.7	23.8	6.8	22.3		
	1899	368,497	318,835	36,529	8,869	4,264	12,088	1899-1904	19.6	18.0	7.7	47.1		
	1889	256,031	214,748	38,986	2,297	—	577	1889-1899	43.9	45.5	—6.3	286.1		
	1879	164,747	130,352	34,395	—	—	—	1879-1889	55.4	64.7	13.3	—		
	1869	105,851	70,956	34,895	—	—	—	1869-1879	55.6	63.7	—1.4	—		
Wisconsin.....	1909	554,179	377,037	129,731	25,459	114,725	1899-1909	52.1	43.6	39.3	254.6			
	1904	440,234	303,874	112,665	15,137	8,533	48,878	1904-1909	25.9	24.1	15.1	134.7		
	1899	364,380	262,642	93,122	6,190	2,426	13,137	1899-1904	20.8	15.7	21.0	272.1		
	1889	178,373	120,697	45,744	932	—	295	1889-1899	104.3	117.6	64.1	564.2		
	1879	106,085	60,729	45,356	—	—	—	1879-1889	68.1	98.7	25.1	—		
	1869	64,223	30,509	33,714	—	—	—	1869-1879	65.2	99.1	34.5	—		
WEST NORTH CENTRAL.														
Minnesota.....	1909	297,670	199,777	59,570	8,026	30,297	52,212	1899-1909	65.3	36.3	136.9	65.7		
	1904	220,934	167,103	38,245	6,992	8,594	14,427	1904-1909	34.7	19.6	55.8	14.8		
	1899	180,124	146,578	24,932	4,845	3,769	6,300	1899-1904	22.7	14.0	53.4	44.3		
	1889	112,537	83,548	27,300	1,689	—	280	1889-1899	60.1	75.4	—8.7	186.9		
	1879	53,880	26,191	28,689	—	—	—	1879-1889	108.9	231.7	—4.8	—		
	1869	20,139	7,085	13,054	—	—	—	1869-1879	167.5	255.7	119.9	—		
Iowa.....	1909	155,384	121,882	6,										

MANUFACTURES.

HORSEPOWER USED IN MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1869-1909—Continued.

DIVISION AND STATE.	CENSUS.	PRIMARY HORSEPOWER.					Electric horse-power, owned and rented.	PER CENT OF INCREASE. ¹					
		Total.	Steam engines. ²	Water wheels and motors. ¹	Gas engines and "other." ³	Electric, rented.		Period.	Total.	Steam.	Water.	Gas and "other."	Electric, owned and rented.
WEST NORTH CENTRAL—Con.													
Missouri.....	1909	340,467	280,489	3,738	12,184	44,056	106,941	1899-1909	80.0	61.9	20.1	71.4	740.4
	1904	247,861	221,215	3,727	8,954	13,965	37,671	1904-1909	37.4	26.8	0.3	36.1	183.9
	1899	189,117	173,271	3,113	7,109	5,624	12,725	1899-1904	31.1	27.7	19.7	28.0	196.0
	1889	144,567	137,595	4,755	2,217	—	618	1889-1899	30.8	25.9	-34.5	220.7	1,959.1
	1879	80,749	72,587	8,162	—	—	—	1879-1889	79.0	89.6	-41.7	—	—
	1869	55,062	48,418	6,644	—	—	—	1869-1879	46.7	49.9	22.8	—	—
North Dakota ⁴	1909	13,196	10,170	530	1,332	1,164	1,093	1899-1909	70.5	71.5	4.7	69.0	893.0
	1904	9,873	8,619	322	651	281	477	1904-1909	33.7	18.0	64.6	104.6	256.0
	1899	7,351	5,930	506	788	127	171	1899-1904	34.3	45.3	-36.4	-17.4	178.9
	1889	3,587	2,985	540	62	—	2	1889-1899	104.9	98.7	-6.3	—	—
South Dakota ⁴	1909	17,666	12,257	939	2,787	1,683	2,084	1899-1909	50.0	32.4	-14.6	111.1	790.6
	1904	11,154	8,483	1,069	1,421	181	339	1904-1909	58.4	44.5	-12.2	96.1	514.7
	1899	11,775	9,256	1,099	1,320	100	234	1899-1904	5.3	-8.4	-2.7	7.7	44.9
	1889	5,552	4,456	1,052	44	—	3	1889-1899	112.1	107.7	4.5	—	—
Nebraska.....	1909	64,466	44,806	7,436	4,694	7,530	15,942	1899-1909	54.1	44.3	-1.0	95.7	564.8
	1904	46,372	34,012	7,221	2,775	2,364	8,126	1904-1909	39.0	31.7	3.0	69.2	96.2
	1899	41,825	31,048	7,513	2,398	866	2,398	1899-1904	10.9	9.5	-3.9	15.7	238.9
	1889	23,430	17,021	6,123	286	—	49	1889-1899	78.5	82.4	22.7	738.5	—
	1879	8,494	2,999	5,495	—	—	—	1879-1889	175.8	467.6	11.4	—	—
	1869	3,311	1,805	1,446	—	—	—	1869-1879	156.5	60.8	280.0	—	—
Kansas.....	1909	213,141	169,807	7,706	24,019	11,809	46,921	1899-1909	212.3	205.5	2.5	534.9	1,209.6
	1904	99,441	83,039	6,544	7,374	2,484	10,826	1904-1909	114.3	104.2	17.8	225.7	354.4
	1899	68,242	55,518	7,521	3,783	1,420	3,426	1899-1904	45.7	49.6	-13.0	94.9	201.4
	1889	42,943	34,806	7,617	520	—	110	1889-1899	58.9	59.5	-1.3	627.5	3,014.5
	1879	21,079	13,468	7,611	—	—	—	1879-1889	103.7	158.4	0.1	—	—
	1869	8,149	6,360	1,789	—	—	—	1869-1879	158.7	111.8	325.4	—	—
SOUTH ATLANTIC.													
Delaware.....	1909	52,779	42,266	5,195	816	4,502	17,910	1899-1909	31.5	28.5	-3.8	-33.8	857.8
	1904	49,490	42,031	5,280	1,087	1,092	5,764	1904-1909	6.6	.6	-1.6	-24.9	210.7
	1899	40,134	32,898	5,399	1,232	605	1,870	1899-1904	23.3	27.8	-2.2	-11.8	208.2
	1889	26,412	21,556	4,671	185	—	104	1889-1899	52.0	52.6	15.6	565.9	1,698.1
	1879	15,428	10,643	4,785	—	—	—	1879-1889	71.2	102.5	-2.4	—	—
	1869	8,533	4,313	4,220	—	—	—	1869-1879	80.8	146.8	13.4	—	—
Maryland.....	1909	218,244	181,326	12,074	7,736	17,108	44,921	1899-1909	65.3	56.9	15.9	45.6	976.2
	1904	185,449	142,096	10,777	9,267	3,309	18,823	1904-1909	31.9	27.6	12.0	-16.5	138.6
	1899	132,052	115,590	10,415	5,314	733	4,174	1899-1904	25.3	22.9	3.5	74.4	351.0
	1889	73,335	56,545	15,633	1,157	—	212	1889-1899	80.1	104.4	-33.4	359.3	1,888.9
	1879	51,259	33,216	18,043	—	—	—	1879-1889	43.1	70.2	-13.4	—	—
	1869	32,422	13,961	18,461	—	—	—	1869-1879	58.1	137.9	-2.3	—	—
District of Columbia.....	1909	16,563	12,169	775	1,186	2,433	4,527	1899-1909	61.5	41.0	110.0	2.6	1,200.9
	1904	12,592	10,513	710	373	996	1,761	1904-1909	31.5	15.8	9.2	218.0	157.1
	1899	10,255	8,630	369	1,156	100	348	1899-1904	22.8	21.8	92.4	-67.7	406.0
	1889	11,374	10,422	810	142	—	70	1889-1899	9.8	-17.2	-54.4	714.1	—
	1879	3,143	2,263	880	—	—	—	1879-1889	261.9	360.5	-8.0	—	—
	1869	1,889	789	1,100	—	—	—	1869-1879	66.4	186.8	-20.0	—	—
Virginia.....	1909	283,928	221,303	45,155	4,114	13,356	42,043	1899-1909	107.7	102.3	91.7	40.3	648.5
	1904	176,998	143,917	25,946	2,732	4,403	12,687	1904-1909	60.4	53.8	74.0	50.6	231.4
	1899	136,696	109,392	23,550	2,932	822	5,617	1899-1904	29.5	31.6	10.2	-6.8	125.9
	1889	82,343	45,406	36,654	283	—	105	1889-1899	66.0	140.9	-35.8	936.0	5,249.5
	1879	57,174	19,710	37,484	—	—	—	1879-1889	44.0	130.4	-2.2	—	—
	1869	49,612	8,410	41,202	—	—	—	1869-1879	15.2	134.4	-9.1	—	—
West Virginia.....	1909	217,496	184,591	10,617	16,958	5,330	28,543	1899-1909	136.7	119.1	95.7	668.0	6,187.0
	1904	133,578	124,212	6,404	7,186	776	5,199	1904-1909	56.9	48.6	65.8	136.0	449.0
	1899	91,894	84,234	5,425	2,208	27	454	1899-1904	50.8	47.5	18.0	225.5	1,045.2
	1889	55,452	44,680	10,542	230	—	5	1889-1899	65.7	88.5	-48.5	860.0	—
	1879	37,910	28,456	9,454	—	—	—	1879-1889	46.3	57.0	11.5	—	—
	1869	27,331	17,136	10,195	—	—	—	1869-1879	38.7	66.1	-7.3	—	—
North Carolina.....	1909	378,556	271,944	41,926	4,642	60,044	86,002	1899-1909	145.1	121.5	43.4	198.7	3,046.8
	1904	216,622	183,166	28,382	2,651	2,423	5,563	1904-1909	74.8	48.5	47.7	75.1	1,448.7
	1899	154,467	122,778	29,241	1,554	894	2,733	1899-1904	40.2	49.2	-2.9	70.6	103.2
	1889	73,301	41,171	31,812	318	—	44	1889-1899	110.7	198.2	-8.1	388.7	—
	1879	45,088	15,025	30,063	—	—	—	1879-1889	62.6	174.0	5.8	—	—
	1869	33,152	6,941	26,211	—	—	—	1869-1879	36.0	116.5	14.7	—	—
South Carolina.....	1909	276,378	103,052	38,497	3,699	41,130	67,620	1899-1909	145.2	138.6	39.6	-7.8	1,015.7
	1904	197,479	157,432	31,097	499	8,451	32,162	1904-1909	40.0	22.6	23.8	641.3	110.2
	1899	112,697	80,913	27,586	4,013	185	6,061	1899-1904	75.2	94.6	12.7	-87.6	430.6
	1889	45,673	29,043	16,399	231	—	8	1889-1899	146.7	178.6	68.2	1,637.2	—
	1879	25,858	11,995	13,373	—	—	—	1879-1889	76.6	142.1	18.2	—	—
	1869	14,932	4,537	10,395	27,417	—	—	1869-1879	73.2	164.4	33.5	—	—
Georgia.....	1909	293,241	240,264	28,748	5,339	23,890	44,264	1899-1909	118.5	116.5	26.5	372.5	1,540.6
	1904	220,419	183,366	28,304	2,282	6,464	15,556	1904-1909	35.3	31.0	1.6	134.0	184.5
	1899	136,499	110,972	22,729	1,130	1,668	2,693	1899-1904	61.5	65.2	24.5	101.9	476.6
	1889	84,064	55,082	28,380	602	—	157	1899-1899	62.4	101.5	-19.9	87.7	1,618.5
	1879	51,189	21,102	30,057	—	—	—	1879-1889	64.3	161.0	-5.6	—	—
	1869	38,243	10,826	27,417	—	—	—	1869-1879	33.8	94.9	9.7	—	—
Florida.....	1909	89,816	84,508	171	1,784	3,353	7,563	1899-1909	147.0	141.1	47.4	72.5	2,404.3
	1904	43,413	41,975	118	320	1,000	2,960	1904-1909	106.9	101.3	44.9	457.5	155.5
	1899	36,356	35,044	116	1,034	162	302	1899-1904	19.4	19.8	1.7	-60.1	880.1
	1889	16,055	15,479	49									

POWER USED.

347

HORSEPOWER USED IN MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1869-1909—Continued.

Table 8—Continued.

DIVISION AND STATE	Census.	PRIMARY HORSEPOWER.					Electric horse-power, owned and rented.	PER CENT OF INCREASE. ¹						
		Total.	Steam engines. ²	Water wheels and motors. ³	Gas engines ² and "other." ³	Electric, rented.		Period.	Total.	Steam.	Water.	Gas and "other."	Electric, owned and rented.	
EAST SOUTH CENTRAL.														
Kentucky.....	1909	230,224	207,501	5,377	5,942	11,314	31,268	1899-1909	59.7	52.5	26.6	187.1	815.6	
	1904	175,625	162,829	4,603	3,319	3,874	10,690	1904-1909	31.8	27.5	16.8	79.0	192.5	
	1899	144,161	136,122	4,247	2,070	1,722	3,415	1899-1904	21.1	19.6	8.4	60.3	213.0	
	1889	82,408	75,513	6,271	624	100	100	1889-1899	74.9	80.3	-32.3	231.7	3,315.0	
	1879	54,029	45,917	9,012	—	—	—	1879-1889	50.0	64.5	-30.4	—	—	
	1869	39,568	31,928	7,640	—	—	—	1869-1879	38.8	43.8	18.0	—	—	
Tennessee.....	1909	242,277	215,338	9,777	2,496	14,066	29,586	1899-1909	85.9	84.5	-11.7	116.1	1,249.1	
	1904	175,790	161,919	9,995	1,636	2,230	6,586	1904-1909	37.8	33.0	-2.2	52.6	349.2	
	1899	130,318	116,715	11,078	1,155	1,370	2,193	1899-1904	34.9	38.7	-9.8	41.6	200.3	
	1889	84,273	68,537	15,451	285	—	106	1889-1899	54.6	70.3	-28.3	305.3	1,968.9	
	1879	51,952	33,388	15,564	—	—	—	1879-1889	62.2	105.3	-16.8	—	—	
	1869	37,981	18,467	19,514	—	—	—	1869-1879	36.8	80.8	-4.9	—	—	
Alabama.....	1909	357,837	328,275	13,923	5,535	10,104	39,928	1899-1909	106.6	102.1	47.8	467.7	1,067.1	
	1904	293,185	280,470	9,518	1,749	10,114	10,114	1904-1909	22.1	17.0	46.3	216.5	294.8	
	1899	173,208	162,453	9,421	975	359	3,421	1899-1904	69.3	72.6	1.0	73.4	195.6	
	1889	102,282	91,583	10,382	317	51	51	1889-1899	69.3	77.4	-9.3	207.6	—	
	1879	27,576	15,779	11,797	—	—	—	1879-1889	270.9	450.4	-12.0	—	—	
	1869	18,751	7,740	11,011	—	—	—	1869-1879	47.1	103.9	7.1	—	—	
Mississippi.....	1909	206,222	202,307	238	1,181	2,496	7,627	1899-1909	213.7	212.5	-34.1	347.3	1,192.7	
	1904	110,338	109,418	77	335	508	1,367	1904-1909	86.9	84.9	—	252.5	457.9	
	1899	65,738	64,731	361	264	382	590	1899-1904	67.8	69.0	-78.7	26.9	131.7	
	1889	35,328	32,345	2,746	237	—	3	1889-1899	86.1	100.1	-86.9	11.4	—	
	1879	18,450	15,001	3,449	—	—	—	1879-1889	91.5	115.6	-20.4	—	—	
	1869	12,472	10,019	2,453	—	—	—	1869-1879	47.9	49.7	40.6	—	—	
WEST SOUTH CENTRAL.														
Arkansas.....	1909	173,088	168,152	674	1,681	2,581	7,417	1899-1909	117.6	115.5	-8.2	176.0	1,445.2	
	1904	103,509	107,609	584	742	484	2,191	1904-1909	58.1	56.1	15.4	126.5	233.5	
	1899	78,560	78,016	734	609	201	430	1899-1904	37.6	39.0	-20.4	21.8	356.5	
	1889	38,313	36,365	1,778	170	—	31	1889-1899	107.7	114.5	-53.7	258.2	—	
	1879	15,733	13,709	2,024	—	—	—	1879-1889	143.5	165.3	-12.2	—	—	
	1869	7,646	6,101	1,545	—	—	—	1869-1879	105.8	124.7	31.0	—	—	
Louisiana.....	1909	346,652	331,370	75	6,130	9,077	27,139	1899-1909	82.3	76.7	-76.0	523.1	1,211.7	
	1904	251,983	245,745	266	3,174	2,778	6,752	1904-1909	37.6	34.8	-71.8	93.1	301.9	
	1899	190,182	187,402	313	976	1,401	2,069	1899-1904	32.5	31.1	-15.0	225.2	226.3	
	1889	29,730	29,439	66	225	—	454	1899-1899	639.7	556.9	—	333.8	355.7	
	1879	11,346	11,256	90	—	—	—	1879-1889	162.0	161.5	—	—	—	
	1869	25,066	24,024	142	—	—	—	1869-1879	-54.7	-54.8	-36.6	—	—	
Oklahoma ⁴	1909	71,139	56,643	472	8,743	5,281	7,887	1899-1909	514.8	408.0	202.6	3,199.2	766.7	
	1904	29,608	27,597	109	1,205	597	910	1904-1909	140.3	104.5	333.0	626.6	—	
	1899	11,572	11,151	156	265	—	12	1899-1904	155.9	148.4	-30.1	354.7	—	
	1889	585	510	75	—	—	—	1899-1899	1,878.1	2,036.5	—	—	—	
Texas.....	1909	282,471	249,475	1,887	16,241	14,868	36,450	1899-1909	143.2	124.9	21.2	1,181.5	1,033.0	
	1904	164,637	155,312	2,277	2,634	4,414	10,299	1904-1909	71.6	60.6	-17.1	516.6	253.9	
	1899	116,157	110,943	1,557	1,267	2,390	3,217	1899-1904	41.7	40.0	46.2	107.9	220.1	
	1889	68,384	65,391	2,633	340	—	156	1899-1899	69.9	69.7	-40.9	272.6	1,833.0	
	1879	30,534	28,026	2,508	—	—	—	1879-1889	123.9	133.3	5.0	—	—	
	1869	13,044	11,214	1,830	—	—	—	1869-1879	134.1	149.9	37.0	—	—	
MOUNTAIN.														
Montana.....	1909	90,402	49,654	13,646	598	26,504	27,301	1899-1909	107.0	55.1	40.4	-21.1	757.4	
	1904	46,736	32,356	10,315	167	3,898	7,979	1904-1909	93.4	53.5	32.3	258.1	242.2	
	1899	43,679	32,008	9,717	758	1,196	3,184	1899-1904	7.0	1.1	6.2	-78.0	150.6	
	1889	2,805	2,105	666	34	—	43	1899-1899	1,457.2	1,420.6	1,359.0	—	—	
	1879	1,498	544	954	—	—	—	1879-1889	87.2	256.9	-30.2	—	—	
	1869	1,617	822	795	—	—	—	1869-1879	-7.4	-33.8	20.0	—	—	
Idaho.....	1909	42,804	35,529	2,407	262	4,606	8,409	1899-1909	657.7	786.0	50.0	—	—	
	1904	16,987	15,145	1,078	227	537	1,702	1904-1909	152.0	134.6	123.3	15.4	394.1	
	1899	5,649	4,010	1,605	28	6	2	1899-1904	200.7	277.7	-32.8	—	—	
	1889	1,999	972	1,024	3	—	2	1899-1899	182.6	312.6	56.7	—	—	
	1879	1,682	546	1,136	—	—	—	1879-1889	18.8	78.0	-9.9	—	—	
	1869	344	311	34	—	—	—	1869-1879	177.6	75.6	285.1	—	—	
Wyoming.....	1909	7,628	6,467	465	182	514	801	1899-1909	99.7	103.1	-12.9	—	—	
	1904	3,604	2,712	382	464	46	132	1904-1909	111.7	135.5	21.7	-60.8	506.8	
	1899	3,520	3,184	534	95	7	87	1899-1904	-5.7	14.8	-28.5	—	—	
	1889	1,524	1,668	216	—	5	—	1899-1899	109.4	98.0	147.2	—	—	
	1879	755	717	38	—	—	—	1879-1889	141.6	124.3	—	—	—	
	1869	344	310	34	—	—	—	1869-1879	119.5	131.3	—	—	—	
Colorado.....	1909	154,615	135,645	1,426	1,670	15,874	35,944	1899-1909	250.0	244.3	-4.5	23.3	1,795.8	
	1904	124,907	117,539	2,094	1,509	3,765	15,730	1904-1909	23.8	15.4	-31.9	10.7	128.5	
	1899	43,434	39,400	1,493	1,354	1,187	1,896	1899-1904	187.6	168.3	40.3	11.4	729.6	
	1889	32,676	30,641	1,723	312	—	58	1899-1899	32.9	28.6	-13.3	334.0	—	
	1879	5,802	3,053	1,649	—	—	—	1879-1889	403.2	675.1	-6.8	—	—	
	1869	2,225	1,433	792	—	—	—	1869-1879	160.8	175.9	133.5	—	—	
New Mexico.....	1909	15,465	11,781	74	305	3,245	4,586	1899-1909	322.8	258.8	-51.6	70.6	—	
	1904	5,948	5,097	149	499	203	233	1904-1909	160.0	131.1	-50.3	-26.9	1,868.2	
	1899	3,658	3,283	153	214	8	8	1899-1904	62.6	55.3	-2.6	133.2	—	
	1889	1,525	1,492	323	10	—	—	1889-1899	100.4	120.0	-52.6	—	—	
	1879	1,359	427	932	—	—	—	1879-1889	34.3	249.4	-65.3	—	—	
	1869	911	252	650	—	—	—	1869-1879</td						

MANUFACTURES.

HORSEPOWER USED IN MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1869-1909—Continued.

DIVISION AND STATE.	Census.	PRIMARY HORSEPOWER.					Electric horse-power, owned and rented.	PER CENT OF INCREASE. ¹					
		Total.	Steam engines. ²	Water wheels and motors. ²	Gas engines ² and "other." ³	Electric, rented.		Period.	Total.	Steam.	Water.	Gas and "other."	Electric, owned and rented.
MOUNTAIN—Continued.													
Arizona.....	1869	39,140	34,193	129	1,504	3,314	15,100	1899-1909	358.5	346.8	-67.8	237.2	2,727.7
	1904	21,412	18,828	267	2,152	165	4,821	1904-1909	82.8	81.6	-51.7	-30.1	213.2
	1899	8,537	7,653	400	446	38	534	1899-1904	150.8	146.0	-33.3	382.5	802.8
	1889	826	457	329	40	—	—	1880-1890	933.5	1,574.6	21.6	—	—
	1879	530	370	160	—	—	—	1879-1889	55.8	23.5	105.6	—	—
	1869	90	80	10	—	—	—	1869-1879	—	—	—	—	—
Utah.....	1909	42,047	28,984	2,997	374	10,592	15,402	1899-1909	238.9	281.1	-11.0	238.1	444.4
	1904	19,397	12,162	3,252	1,042	2,941	4,272	1904-1909	121.4	128.3	-7.8	-64.1	260.5
	1899	12,674	7,608	3,366	114	1,588	2,829	1899-1904	53.0	59.9	-3.4	814.0	51.0
	1889	5,064	2,530	2,492	42	—	64	1880-1890	150.3	200.6	35.1	—	—
	1879	4,689	1,154	3,585	—	—	—	1879-1889	8.0	119.2	-29.5	—	—
	1869	2,500	331	2,169	—	—	—	1869-1879	87.6	248.6	63.0	—	—
Nevada.....	1909	7,765	4,533	399	526	2,307	6,441	1899-1909	397.4	621.8	-55.3	—	—
	1904	2,834	1,092	782	410	550	550	1904-1909	174.0	315.1	-49.0	28.3	1,071.1
	1899	1,561	628	893	39	1	1	1899-1904	81.6	73.9	-12.4	—	—
	1889	372	318	5	48	—	—	1889-1890	319.6	97.5	—	—	—
	1879	716	608	108	—	—	—	1879-1889	-48.0	-47.7	-94.4	—	—
	1869	8,545	6,007	2,538	—	—	—	1869-1879	-91.6	-89.9	-95.7	—	—
PACIFIC.													
Washington.....	1909	297,897	257,230	8,065	1,651	30,951	42,615	1899-1909	240.1	230.8	17.7	277.8	1,290.3
	1904	188,342	150,312	4,642	1,738	11,650	15,290	1904-1909	77.0	71.1	73.7	-5.0	185.3
	1899	87,601	77,749	6,853	437	2,562	3,137	1899-1904	92.2	93.3	-32.3	287.7	387.4
	1889	42,579	37,650	4,851	69	—	63	1889-1890	105.7	106.5	41.3	—	—
	1879	4,395	3,210	1,185	—	—	—	1879-1889	868.8	1,073.2	309.4	—	—
	1869	2,823	1,411	1,412	—	—	—	1869-1879	55.7	127.5	-16.1	—	—
Oregon.....	1909	175,010	112,244	47,498	526	14,811	20,802	1899-1909	191.7	195.5	146.3	2.5	673.3
	1904	81,348	55,512	20,660	449	4,727	5,223	1904-1909	115.1	102.2	129.6	17.1	298.3
	1899	60,005	37,988	19,263	513	2,243	2,690	1899-1904	35.6	46.1	7.3	-12.5	94.2
	1889	32,508	22,430	9,280	798	—	37	1889-1890	84.6	69.4	107.6	-35.7	—
	1879	13,589	4,334	9,255	—	—	—	1879-1889	139.2	417.5	0.3	—	—
	1869	8,277	2,471	5,806	—	—	—	1869-1879	64.2	75.4	59.4	—	—
California.....	1909	329,100	192,526	7,670	11,367	116,537	143,684	1899-1909	159.2	84.0	63.9	52.4	811.6
	1904	210,359	153,178	7,260	10,558	39,383	49,575	1904-1909	56.4	26.3	5.6	7.7	189.8
	1899	126,953	105,190	4,680	7,459	9,624	13,762	1899-1904	65.7	45.6	55.1	41.5	214.5
	1889	72,831	64,864	5,091	2,976	—	393	1889-1890	74.1	62.2	-8.1	150.6	3,910.7
	1879	32,921	28,071	4,850	—	—	—	1879-1889	121.5	131.1	5.0	—	—
	1869	25,370	18,493	6,877	—	—	—	1869-1879	29.8	51.8	-29.5	—	—

¹ A minus sign (—) denotes decrease. Per cent not shown where base is less than 100.² Owned power only.³ Under "other" are included all kinds of primary power, both owned and rented, not specifically covered by other headings. In 1879 and 1869 no statistics were obtained for the kinds of power included under this heading.

POWER USED.*

349

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909.

AGRICULTURAL IMPLEMENTS.

Table 9

STATE.	PRIMARY HORSEPOWER.								ELECTRIC HORSEPOWER.		FUEL USED.							
	Number of establish- ments re- porting.	Total horse- power.	Owned by establishments reporting.				Rented.		Total, rented and gen- erated by estab- lish- ment report- ing.	Generated in the estab- lish- ment report- ing.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).		
			Total.	Steam engines.	Gas en- gines.	Water wheels and motors.	Other.	Electric.			Anthra- cite (long tons).	Bitumino- us (short tons).						
United States...	600	100,601	84,717	71,394	4,433	8,390	500	15,684	200	38,905	23,221	15,114	550,085	98,819	14,523	244,759	313,412	
California.....	25	1,186	507	335	172	-----	-----	670	-----	711	32	174	266	294	10	8,982	16	
Georgia.....	14	1,307	1,127	1,079	48	-----	-----	180	-----	855	675	-----	4,900	1,357	76	180	-----	
Illinois.....	75	38,040	32,317	31,575	222	520	-----	5,535	188	18,698	13,183	-----	800	287,554	38,363	8,643	135,401	2,890
Indiana.....	36	9,254	8,221	5,002	119	3,100	-----	1,033	-----	2,480	1,447	195	44,643	14,588	225	3,555	3,611	166
Iowa.....	42	2,554	1,897	1,589	278	30	-----	657	-----	753	96	28	16,139	1,154	24	1,026	-----	-----
Kentucky.....	5	772	734	710	24	-----	-----	38	-----	501	463	-----	3,033	1,000	-----	3,255	200	-----
Michigan.....	30	5,195	3,705	3,540	115	50	-----	1,490	-----	2,243	753	45	23,895	3,543	221	10,456	-----	-----
Minnesota.....	18	1,468	1,380	1,355	25	-----	-----	88	-----	508	420	22	10,443	1,485	2,179	1,145	-----	-----
New York.....	56	10,744	9,298	6,612	266	2,420	-----	1,436	10	2,889	1,433	5,651	58,963	10,745	1,595	43,191	27,910	-----
Ohio.....	50	9,867	9,010	7,860	1,562	88	-----	857	-----	3,406	2,549	-----	44,510	8,967	13	11,393	240,768	-----
Pennsylvania.....	31	3,842	2,821	2,706	115	-----	-----	1,021	-----	1,638	617	2,622	12,589	3,045	584	9,490	2,062	-----
Tennessee.....	15	1,236	1,236	1,172	64	-----	-----	-----	-----	587	587	11	4,976	4,437	200	87	-----	-----
Wisconsin.....	41	7,301	5,780	5,069	211	500	-----	1,521	-----	2,006	485	841	19,896	5,482	73	9,201	898	-----
All other states....	164	7,835	6,684	3,290	1,212	2,182	-----	1,149	2	1,670	521	4,725	18,278	4,359	761	7,018	34,711	-----

ARTIFICIAL FLOWERS AND FEATHERS AND PLUMES.

United States...	75	334	110	81	17	12	-----	204	20	244	40	2,109	183	158	13	472	16,086
New York.....	50	215	50	37	1	12	-----	150	15	170	20	1,204	635	33	98	11	12,841
Pennsylvania.....	10	75	36	31	5	-----	-----	34	5	54	20	635	180	150	2	1	12,057
All other states....	15	44	24	13	11	-----	-----	20	-----	20	-----	180	60	-----	471	1,188	-----

AUTOMOBILES, INCLUDING BODIES AND PARTS.

United States...	664	75,550	46,612	38,325	7,000	287	-----	27,641	1,297	41,829	14,188	17,346	319,497	14,282	2,183	86,873	385,468
Connecticut.....	26	3,937	2,271	2,173	98	-----	-----	1,666	-----	2,453	787	820	16,115	44	4	15,749	21,732
Illinois.....	61	1,786	661	480	161	20	-----	1,052	73	1,160	108	7	11,839	161	-----	153	3,196
Indiana.....	62	5,813	3,904	3,460	444	-----	-----	1,909	-----	2,866	957	44	34,783	1,182	20	7,085	19,276
Massachusetts.....	56	2,896	1,831	1,465	196	170	-----	607	458	697	90	2,561	7,411	75	12	154	7,302
Michigan.....	111	25,938	12,945	11,388	1,557	-----	-----	12,526	467	16,340	3,820	1,451	95,900	5,178	1,810	34,939	90,810
New Jersey.....	20	1,311	1,144	1,066	78	-----	-----	167	-----	692	525	1,372	3,105	20	-----	126	1,718
New York.....	98	9,398	6,474	5,304	1,075	95	-----	2,894	30	4,116	1,222	5,046	33,557	5,207	2	4,590	70,739
Ohio.....	65	14,433	9,983	7,881	2,102	-----	-----	4,445	5	8,094	3,649	1,057	61,588	1,591	212	16,653	151,524
Pennsylvania.....	38	2,740	2,376	2,185	191	-----	-----	364	6	2,258	1,894	3,590	22,405	410	-----	4,658	7,039
Wisconsin.....	29	3,153	2,964	2,265	699	-----	-----	189	-----	1,043	1,039	1,039	21,606	199	11	1,344	6,929
All other states....	100	4,139	2,059	1,658	399	2	-----	1,822	258	2,104	282	359	8,188	215	112	1,422	5,403

BOOTS AND SHOES, INCLUDING CUT STOCK AND FINDINGS.

United States...	1,627	96,302	67,119	60,772	3,532	2,815	-----	17,381	11,802	32,381	15,000	45,089	285,545	2,124	4,313	4,324	128,314
California.....	13	369	142	35	107	-----	-----	227	-----	227	-----	13	160	-----	-----	1,659	254
Connecticut.....	9	235	135	60	75	-----	-----	95	5	95	55	206	500	-----	-----	1	258
Illinois.....	46	2,770	2,203	2,102	101	-----	-----	412	165	810	398	94	18,054	14	-----	608	1,307
Iowa.....	10	345	265	250	15	-----	-----	80	-----	150	70	30	2,393	5	-----	32	257
Maine.....	47	3,810	3,042	2,432	15	595	-----	633	135	816	183	1,068	8,569	173	1,816	70	-----
Maryland.....	12	252	83	60	28	-----	-----	80	80	80	80	72	529	-----	-----	2	1,637
Massachusetts.....	762	35,051	20,767	20,429	223	115	-----	6,528	7,756	9,028	2,500	4,134	98,144	1,895	384	622	5,309
Michigan.....	13	786	335	335	-----	-----	-----	451	-----	481	30	5	3,766	15	35	238	-----
Minnesota.....	17	1,411	755	735	20	-----	-----	576	80	1,111	555	1,075	3,615	17	-----	1,179	-----
Missouri.....	58	11,113	9,836	9,821	65	-----	-----	1,152	75	6,228	5,076	184	50,555	2	44	8,989	-----
New Hampshire.....	68	8,582	6,508	5,790	18	698	-----	926	1,150	941	15	14	23,592	1,919	54	212	-----
New Jersey.....	45	1,500	1,396	1,310	86	-----	-----	99	5	194	95	4,020	2,911	10	-----	192	1,314
New York.....	199	10,456	7,623	5,922	494	1,207	-----	2,103	725	2,936	828	22,552	13,103	52	135	23,062	-----
Ohio.....	71	8,925	6,416	4,683	1,733	-----	-----	1,246	1,203	4,003	2,787	844	31,722	-----	31	65,168	-----
Pennsylvania.....	118	4,337	3,729	3,477	252	-----	-----	348	260	1,067	719	9,075	8,428	12	325	3,128	-----
Virginia.....	9	1,410	1,290	1,290	75	-----	-----	120	-----	1,047	927	18	6,211	6,211	-----	863	-----
Wisconsin.....	61	2,923	1,957	1,681	201	75	-----	916	50	1,741	825	934	10,127	10	77	440	3,533
All other states....	66	2,027	589	360	104	125	-----	1,384	54	1,426	42	151	5,066	-----	21	109	8,606

BOOTS AND SHOES, RUBBER.

United States...	22	25,903	24,176	22,293	-----	1,883	-----	1,712	15	3,407	1,695	9,519	101,858	-----	468	-----	
Connecticut.....	4	7,883	7,873	6,790	-----	1,083	-----	10	-----	1,015	1,005	-----	27,873	-----	-----	468	-----
Massachusetts.....	8	8,330	7,731	7,731	-----												

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

BOXES, FANCY AND PAPER.

STATE.	Num- ber of estab- lish- ments re- porting.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.		FUEL USED.						
		Total horse- power.	Owned by establishments reporting.					Rented.	Total, rented and gen- erated by estab- lish- ment.	Gen- erated in the estab- lish- ment report- ing.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas en- gines.	Water wheels and motors.	Other.	Electric.	Other.	Anthra- cite (long tons).	Bitumi- nous (short tons).						
United States...	900	23,323	14,776	10,727	1,621	2,425	3	6,927	1,620	9,415	2,488	20,528	70,802	158	211	845	130,473
California...	19	405	52	916	52	38	—	353	132	353	17	3	—	—	—	149	1,274
Connecticut...	36	1,306	981	1,633	27	—	—	193	132	201	8	503	4,621	—	104	35	433
Illinois...	55	4,143	3,093	1,612	120	1,310	—	966	84	1,586	620	173	16,887	—	—	49	1,581
Indiana...	13	351	176	140	36	—	—	175	—	190	15	4	2,712	—	—	87	219
Maryland...	17	365	247	152	95	—	—	103	15	186	83	82	1,216	—	3	4	1,427
Massachusetts...	96	2,370	1,270	1,148	77	45	—	636	434	882	217	1,523	5,304	—	7	143	1,639
Michigan...	19	1,564	1,140	1,140	—	—	—	414	10	520	106	31	16,240	15	—	372	—
Minnesota...	11	453	50	50	—	—	—	403	—	403	60	145	716	—	6	—	1,304
Missouri...	27	657	235	215	20	—	—	422	—	542	120	—	2,945	—	—	4	3,178
New Jersey...	44	1,224	819	802	17	—	—	229	176	449	220	3,022	1,828	—	2	695	—
New York...	295	4,077	3,145	1,612	613	917	3	955	577	1,313	358	7,065	5,185	—	39	162	80,327
Ohio...	45	1,825	1,243	891	277	75	—	575	7	693	118	—	6,353	28	—	30	18,954
Pennsylvania...	108	2,121	1,620	1,457	163	—	—	355	146	566	211	6,091	2,134	—	—	89	13,487
Virginia...	10	193	95	80	15	—	—	98	—	101	3	47	478	20	—	5	805
Wisconsin...	15	331	75	52	23	—	—	256	—	564	308	1,080	684	16	7	16	436
All other states...	90	1,338	535	409	86	40	—	764	39	805	41	754	3,479	72	50	72	4,443

BRASS AND BRONZE PRODUCTS.

United States...	860	106,120	86,365	78,101	4,890	3,374	—	18,399	1,356	33,462	15,063	206,396	589,309	59,152	49,473	206,852	248,798
Connecticut...	72	50,034	44,213	39,324	2,002	2,887	—	5,463	358	14,024	8,561	76,473	210,109	1,329	45,606	113,337	31,812
Illinois...	65	1,859	848	702	136	10	—	968	43	1,707	739	1,730	10,996	3,125	64	7,388	4,107
Massachusetts...	78	6,407	4,783	4,684	104	15	—	1,514	110	1,601	87	85,037	198,172	414	216	1,315	1,836
Michigan...	58	11,622	10,467	10,413	54	—	—	1,155	—	2,264	1,109	2,684	55,381	16,106	201	15,333	8,491
New Jersey...	52	4,431	3,873	3,552	156	165	—	553	5	625	72	6,103	8,214	2,079	1,459	12,803	46,816
New York...	196	13,397	6,747	5,925	637	185	—	6,041	609	7,627	1,586	24,198	34,580	6,307	1,063	13,915	34,196
Ohio...	71	4,214	3,702	3,301	461	—	—	413	39	1,627	1,214	21,888	6,605	23	5,411	22,877	—
Pennsylvania...	82	4,996	4,457	3,675	747	35	—	475	64	1,248	773	4,520	21,328	11,920	223	1,260	65,469
Wisconsin...	31	6,102	5,909	5,678	206	25	—	181	12	908	727	4,246	23,876	2,441	73	15,146	7,392
All other states...	155	3,058	1,306	887	357	52	—	1,636	116	1,831	195	1,405	4,866	8,826	515	20,944	25,802

BREAD AND OTHER BAKERY PRODUCTS.

United States...	6,193	65,298	34,003	25,506	8,166	334	3	31,160	129	39,795	8,635	383,390	250,165	195,971	310,933	151,371	2,732,911
Alabama...	29	334	130	131	5	—	—	198	—	223	25	69	2,672	2,457	3,150	1	183
California...	250	2,517	805	654	150	1	—	1,712	—	1,032	220	54	692	137	8,900	92,659	39,421
Colorado...	55	613	229	211	18	—	—	384	—	384	—	822	8,144	2,791	2,032	14	6,093
Connecticut...	99	658	224	178	46	—	—	434	—	469	35	11,524	2,134	2,340	1,958	35	10,789
District of Columbia...	36	911	606	539	67	—	—	305	—	325	20	3,362	4,165	509	1,078	6	1,456
Illinois...	402	5,618	3,047	2,578	456	13	—	2,571	—	3,332	761	13,777	38,875	29,762	40,209	633	58,324
Indiana...	256	2,124	1,042	656	386	—	—	1,062	20	1,165	103	2,288	10,769	10,065	22,972	401	35,569
Iowa...	131	1,172	788	666	122	—	—	384	—	643	259	1,391	9,383	4,875	9,431	406	7,395
Kansas...	110	598	334	169	165	—	1	263	—	390	127	348	2,923	22	3,710	220	147,842
Kentucky...	83	745	290	205	94	—	—	446	—	446	—	524	4,776	3,438	6,041	164	9,602
Louisiana...	105	946	226	94	132	—	—	720	—	741	21	1,575	5,333	444	16,250	284	15,316
Maine...	40	253	61	55	6	—	—	192	—	192	—	2,569	310	227	3,633	11	1,402
Maryland...	149	1,212	533	386	146	1	—	675	4	678	3	5,946	7,303	511	5,739	58	14,417
Massachusetts...	282	4,310	2,782	2,678	142	62	—	1,534	—	2,692	1,158	25,382	12,304	23,556	7,844	264	45,239
Michigan...	255	1,953	714	469	241	4	—	1,239	—	1,239	—	4,038	11,505	9,683	18,186	215	29,756
Minnesota...	69	955	610	576	32	2	—	345	—	649	304	3,763	4,708	2,492	10,535	62	4,642
Missouri...	200	3,023	1,607	1,474	193	—	—	1,352	4	2,076	724	2,794	25,377	6,628	14,038	35,898	160,475
Nebraska...	56	342	97	30	67	—	—	245	—	245	—	573	3,844	1,193	4,057	164	3,150
New Jersey...	270	2,184	1,077	786	291	—	—	1,106	1	1,346	240	47,551	4,398	5,769	2,098	83	18,676
New York...	791	10,319	4,654	3,320	1,117	215	2	5,037	28	5,683	46	151,844	10,378	30,983	11,281	194	298,584
Ohio...	506	5,398	3,358	2,205	1,085	8	—	2,040	—	2,823	783	5,913	27,411	15,893	14,371	270	692,323
Oregon...	25	336	118	115	3	—	—	218	—	218	—	344	36	226	4,416	9,102	6,137
Pennsylvania...	1,031	10,806	7,499	4,977	2,506	16	—	3,307	—	6,256	2,949	77,981	20,424	21,837	10,887	602	878,758
Rhode Island...	57	757	461	441	20	—	—	286	10	511	225	3,745	1,753	4,033	1,100	5	4,035
Tennessee...	44	645	304	282	22	—	—	281	60	403	122	853	3,238	2,861	4,034	61	1,758
Texas...	128	1,281	686	609	76	2	—	596	—	1,046	450	101	5,112	780	14,061	5,230	20,384
Virginia...	68	761	294	288	4	2	—	467	—	497	30	3,214	4,075	1,655	2,547	10	2,211
Washington...	59	412	37	24	10	3	—	375	—	380	5	2,258	2,056	1,043	8,973	3,667	2,267
Wisconsin...	145	944	448	261	187	—	—	496	—	496	—	1,890	2,429	4,407	15,370	137	37,603
All other states...	459	3,165	874	489	380	4	—	2,290									

POWER USED.

351

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

BRICK AND TILE.

Table 9—Contd.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.		FUEL USED.							
		Total horse-power.	Owned by establishments reporting.				Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).		
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.			Anthracite (long tons).	Bituminous (short tons).						
United States...	3,523	341,169	324,358	313,164	10,615	272	307	16,719	92	21,130	4,411	236,336	5,773,232	40,785	1,069,973	1,040,406	16,003,049	
Alabama...	64	5,127	5,112	5,075	37	.....	.....	15	.....	21	6	.....	113,766	946	24,224	29	.....
Arkansas...	27	2,178	2,178	2,128	.....	50	.....	.....	.....	.....	.....	22,445	19,894	.....	.....	1	289,500
California...	68	8,972	5,821	5,607	214	.....	1	3,151	625	3,219	68	1,220	8,936	1,042	507,017	1	.....
Colorado...	45	8,923	3,298	3,292	5	.....	1	625	.....	705	80	2,732	110,420	195	1,682	1	.....
Connecticut and Rhode Island...	35	5,193	4,953	4,865	73	15	.....	240	.....	240	.....	1,887	19,928	.....	45,842	118	.....
Georgia...	74	7,476	7,371	7,252	44	.....	75	105	.....	111	6	600	140,786	1,009	42,649	97	.....
Illinois...	296	36,013	35,433	35,194	237	2	580	1,728	1,148	3,775	964,310	1,236	26,062	118,752	3,550
Indiana...	273	19,881	19,766	19,283	483	115	303	188	330	469,978	2,156	20,452	12,308	58,782
Iowa...	199	20,782	20,527	20,250	227	.....	50	255	.....	766	511	1,500	467,742	560	1,608	201	.....
Kansas...	53	9,827	9,457	8,189	1,268	.....	.....	370	.....	689	319	.....	45,896	90	226	35,468	6,425,747
Kentucky...	65	4,403	4,413	4,376	37	.....	.....	50	.....	60	10	.....	78,806	3,563	8,272	19	7,500
Louisiana...	40	2,910	2,910	2,890	20	.....	.....	.....	.....	.....	156	1,338	40,505	6,018	18,920	.....	
Maryland...	31	4,815	4,815	4,808	7	.....	.....	.....	.....	.....	94	71,437	3,429	5	44,609	.....	
Massachusetts...	40	2,907	2,672	2,585	62	25	.....	295	.....	295	.....	1,513	10,257	58,200	68	.....	.....
Michigan...	120	8,346	8,305	7,942	313	50	.....	41	.....	116	75	2,326	97,077	1,124	24,770	76,488	.....
Minnesota...	73	5,867	5,565	5,443	122	.....	.....	302	.....	313	11	65	58,613	155	44,839	177	.....
Mississippi...	57	3,653	3,553	3,553	.....	.....	.....	100	.....	150	50	41,897	295	39,575	4	.....	.....
Missouri...	84	8,274	7,994	7,438	556	.....	.....	190	90	190	.....	97	287,021	2,104	30,877	38	598,609
Nebraska...	61	4,033	3,588	3,308	203	.....	75	447	.....	447	.....	56,009	2,027	1,525	2,155	.....	.....
New Jersey...	71	11,419	10,003	9,943	60	.....	.....	1,416	.....	1,549	133	29,570	168,403	4,202	8,425	133	708
New York...	192	28,734	26,671	25,794	807	70	.....	2,063	.....	2,273	210	124,523	136,501	4,138	61,986	7,159	46,632
North Carolina...	137	6,750	6,672	6,672	.....	.....	87	.....	.....	87	.....	418	33,794	290	105,182	22	.....
Ohio...	480	37,742	37,546	35,454	2,070	22	.....	196	.....	917	721	2,957	953,200	1,557	43,685	1,068	1,780,136
Oklahoma...	35	3,733	3,523	3,268	255	.....	.....	210	.....	335	125	29,115	3,198	6	1,732,605	3,552,614	.....
Pennsylvania...	297	38,247	37,814	34,938	2,876	.....	.....	433	.....	677	244	57,513	590,730	6,758	4,386	1,517	.....
South Carolina...	44	2,824	2,567	2,531	36	.....	.....	257	.....	257	.....	.....	36,642	44,240	134	.....	.....
Tennessee...	62	4,631	4,564	4,524	36	4	67	.....	.....	67	2	107,726	3,502	23,121	72	.....	.....
Texas...	65	7,488	7,486	7,335	101	50	2	230	230	.....	115,797	.....	63,305	250,625	250,625	87,868	.....
Utah...	12	1,556	426	360	4	62	1,130	.....	1,130	125	20	27,222	1,047	2	.....	2	.....
Virginia...	73	5,640	5,435	5,400	35	.....	105	.....	105	125	20	140,895	1,056	19,358	50	.....	.....
Washington...	41	4,797	3,445	3,445	.....	.....	1,352	.....	1,352	1,541	189	91,805	213	62,057	402	.....	.....
West Virginia...	34	4,983	4,808	4,790	18	.....	175	.....	175	4,018	.....	72,137	373	2	1,054,911	288	.....
Wisconsin...	86	5,640	5,455	5,269	158	28	.....	185	.....	235	50	324	106,653	2,184	31,278	324	.....
All other states...	189	12,376	10,214	9,963	251	.....	2,162	.....	2,162	2,179	17	418	90,041	1,052	162,722	19,926	.....

BUTTER, CHEESE, AND CONDENSED MILK.

United States...	6,420	101,349	95,771	90,802	3,373	1,465	131	5,366	212	8,276	2,910	47,344	588,169	1,069	182,587	94,325	215,318
California...	145	2,496	1,596	1,389	207	.....	.....	880	20	906	26	65	347	.....	7,269	27,119	820
Illinois...	266	6,753	6,567	6,444	73	50	186	.....	625	439	94	111,866	.....	718	711	78	.....
Iowa...	507	8,911	8,519	8,181	218	120	.....	354	38	438	84	192	66,615	168	2,312	292	.....
Michigan...	336	4,776	4,624	4,563	47	14	144	8	286	142	462	41,585	513	5,003	239	.....	.....
Minnesota...	769	11,874	11,227	10,821	406	.....	.....	647	.....	711	64	412	38,871	5	22,520	556	100
New York...	1,044	16,629	16,390	15,263	469	626	32	239	.....	648	409	23,216	99,204	59	33,808	1,236	13,266
Ohio...	191	3,386	3,296	2,725	472	65	34	86	4	512	426	222	31,305	23	2,370	19	48,347
Pennsylvania...	464	7,613	7,497	7,247	126	124	.....	51	65	233	182	15,384	31,957	.....	4,914	248	12,870
Vermont...	151	2,944	2,807	2,402	74	331	.....	127	10	379	252	3,789	6,380	.....	7,138	167	.....
Washington...	92	2,203	1,807	1,772	11	24	.....	396	.....	714	318	10,151	78	10,346	22,018	.....	.....
Wisconsin...	1,560	16,467	16,131	15,258	812	58	8	336	.....	356	20	1,085	71,557	149	67,455	1,014	.....
All other states...	895	17,297	15,310	14,737	458	103	12	1,920	67	2,468	548	2,423	78,301	74	18,234	40,708	144,887

BUTTONS.

United States...	329	12,831	9,235	7,594	783	850	8	2,833	763	3,416	583	11,015	39,460	554	338	1,520	15,693
Connecticut...	20	1,673	1,359	620	134	605	.....	300	14	430	130	1,294	2,436	.....	52	151	614
Illinois...	18	275	215	177	38	.....	.....	314	100	379	65	134	18,821	12	210	200	101
Iowa...	70	2,890	2,395	2,223	164	8	.....	430	8	430	.....	80	233	536	50	659	188
Massachusetts...	9	898	460	345	45	70	.....	.....	.....	.....	.....	80	233	536	50	124	188
New Jersey...	60	1,232	870	722	142	15	.....	169	184	265	96	2,925	1,304	10	51	4,619	.....
New York...	91	8,911	2,294	1,965	169	160	.....	1,275	342	1,420	145	5,354	8,125	6	8	129	9,393
Pennsylvania...	17	858	712	705	7	.....	31	115	31	401	147	53	6,830	.....	8	206	710
All other states...	44	1,175	921	837	84	.....	.....	254	.....	.....	.....	.....	.....	.....	8	206	68

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

CANNING AND PRESERVING.

Table 9—Contd.

STATE.	Number of establishments reporting.	Total horse-power.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.	FUEL USED.						
			Owned by establishments reporting.					Rented.			Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Gas (1,000 feet).		
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.			Anthracite (long tons).	Bituminous (short tons).	Coke (short tons).	Wood (cords).		
United States...	2,441	81,178	75,309	70,362	4,519	398	30	5,469	401	8,728	3,259	37,613	287,294	2,156	62,278	165,042	130,434
California...	161	7,453	5,756	5,580	176	.....	.....	1,697	.....	1,803	106	83	1,797	.....	3,529	141,958	12,816
Colorado...	27	1,349	1,199	1,187	12	.....	.....	150	.....	1,160	10	.....	8,442	.....	1,424	315	522
Delaware...	74	1,725	1,689	1,579	10	.....	.....	36	.....	37	1	50	4,252	.....	213	375	6,279
Illinois...	94	4,305	3,966	3,846	120	.....	.....	307	32	544	237	272	24,891	63	274	489	895
Indiana...	128	6,398	6,062	5,967	95	.....	.....	286	60	977	691	.....	37,085	70	274	.....	.....
Iowa...	66	2,989	2,887	2,870	17	.....	.....	102	.....	154	52	2	8,770	.....	190	79	130
Kentucky...	85	907	907	907	.....	.....	.....	.....	.....	156	156	.....	6,583	12	43	10	30
Louisiana...	20	659	624	450	164	.....	.....	35	.....	43	8	210	2,024	4	516	3,670	85
Maine...	145	4,355	4,288	4,079	149	60	.....	31	36	277	240	1,417	15,741	37	3,238	502	.....
Maryland...	314	7,007	6,928	5,741	187	.....	.....	29	50	85	56	69	27,721	108	7,662	2,773	2,844
Massachusetts...	35	1,043	767	708	28	1	30	226	50	494	268	658	3,984	4	291	8	793
Michigan...	75	3,374	3,181	3,034	97	.....	.....	243	.....	444	201	258	20,047	535	2,332	123	120
Mississippi...	11	378	368	360	8	.....	.....	10	.....	15	5	.....	1,996	18	1,794	158	434
Missouri...	73	974	916	873	43	.....	.....	58	.....	68	10	17	3,447	.....	2,525	217	1,443
New Jersey...	70	2,698	2,645	2,517	103	25	.....	53	.....	77	24	2,130	6,888	.....	184	423	576
New York...	475	12,469	11,402	8,846	2,297	259	.....	932	135	1,087	155	20,979	34,934	727	693	2,134	21,383
Ohio...	102	4,244	4,050	3,877	173	.....	.....	191	3	282	91	62	14,570	375	220	101	56,428
Oregon...	45	1,318	1,159	1,136	19	4	.....	159	.....	163	4	18	12,122	7,520	8,686	.....	.....
Pennsylvania...	64	3,474	3,325	3,168	143	14	.....	149	.....	843	694	4,534	23,392	51	5,122	399	48
Virginia...	83	1,382	1,378	1,365	13	.....	.....	4	.....	4	4	131	2,391	26	14,553	1,631	2,766
Washington...	64	2,433	2,242	1,919	317	6	.....	191	.....	314	123	4	8,726	50	14,537	537	586
Wisconsin...	69	4,915	4,500	4,249	251	.....	.....	415	.....	494	79	355	13,444	.....	308	3,351	.....
All other states...	211	5,330	5,120	4,994	97	29	.....	165	45	207	42	304	16,047	127	9,367	.....	.....

CARPETS AND BUGS, OTHER THAN RAG.

United States...	130	38,553	34,485	30,680	500	3,305	.....	2,709	1,359	10,906	8,197	46,134	242,339	.....	5	47	4,714
Massachusetts...	10	10,037	9,665	8,285	8	1,372	.....	65	307	2,166	2,101	1,146	56,952	.....	26	.....	727
New Jersey...	8	970	970	660	10	300	.....	47	47	1,829	5,124	.....	1,829	.....	1	16	145
New York...	15	11,901	10,141	8,513	3	1,623	1,755	5	3,146	1,391	8,409	100,693	.....	1	4	5	1,790
Pennsylvania...	88	13,073	11,247	10,779	460	8	1,79	1,047	2,437	1,653	34,760	52,421	.....	4	27,149	2,052	.....
All other states...	9	2,572	2,462	2,443	19	.....	.....	110	.....	3,110	3,000	.....	.....	.....	.....	.....	.....

CARRIAGES AND WAGONS AND MATERIALS.

United States...	3,583	126,032	100,715	82,911	13,120	4,667	17	24,969	348	39,424	14,455	52,258	451,304	18,741	13,503	44,176	477,367
Arkansas...	47	3,740	3,628	3,560	68	.....	.....	121	.....	231	110	70	1,130	.....	78	79	38,381
California...	118	857	110	19	82	9	.....	847	.....	847	.....	218	1,617	.....	48	464	1,244
Connecticut...	59	957	700	408	115	177	.....	257	.....	257	.....	832	1,752	2	177	171	5,446
Georgia...	47	1,353	946	797	149	.....	.....	407	.....	802	395	70	3,027	16	.....	267	44
Illinois...	239	9,684	7,136	5,963	583	590	.....	2,548	.....	3,895	1,347	637	47,599	3,483	97	6,745	3,122
Indiana...	171	13,790	12,127	11,496	631	.....	.....	1,663	.....	5,596	3,933	78	92,691	1,421	907	17,458	5,730
Iowa...	95	2,387	1,843	1,537	306	.....	.....	524	20	526	2	65	12,979	587	105	1,951	645
Kentucky...	101	6,617	6,151	6,003	148	.....	.....	431	35	2,783	2,352	9	29,214	952	1,222	141	517
Maryland...	55	879	601	500	101	.....	.....	278	.....	290	12	482	2,388	.....	33	115	457
Massachusetts...	134	2,038	1,175	780	310	73	12	826	.....	826	.....	858	4,532	45	249	454	37,559
Michigan...	139	6,362	5,291	4,730	259	202	.....	1,061	10	1,610	549	126	35,477	633	1,619	765	76
Minnesota...	97	1,657	1,271	872	399	.....	.....	380	6	522	142	288	5,354	132	233	397	188
Missouri...	176	5,858	5,167	4,642	520	5	601	939	248	172	14,056	165	1,105	1,056	1,105	467	3,442
New Jersey...	123	1,645	1,311	805	372	74	1	333	1	345	12	2,178	4,992	17	31	228	3,435
New York...	352	10,029	8,391	5,278	1,302	1,811	.....	1,582	56	1,796	214	5,705	28,110	301	1,123	2,087	22,511
North Carolina...	83	9,110	8,386	1,649	210	27	7	224	27	7,224	22	722	3,985	75	2,458	334	.....
Ohio...	299	14,771	13,546	11,686	1,847	13	.....	1,222	3	3,578	2,356	204	81,415	5,986	101	4,833	63,790
Pennsylvania...	388	11,544	10,267	7,281	2,816	170	.....	1,166	111	2,740	1,574	36,240	30,824	1,291	200	1,852	107,448
Tennessee...	91	4,537	4,267	4,060	167	40	.....	217	53	327	110	12	5,736	617	652	303	600
Virginia...	66	2,032	1,726	1,435	194	97	.....	308	2	308	2	34	4,879	80	716	228	141
Wisconsin...	196	6,426	6,091	5,137	868	86	.....	335	1	1,413	1,078	2,284	24,012	2,379	793	1,554	1,371
All other states...	507	9,650	7,084	4,213	1,573	1,298	.....	2,550	16	2,509	19	974	14,640	559	1,556	3,283	181,324

CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.

United States...	1,002	293,361	259,430	254,942	3,140	450	898	33,786	145	161,288	127,502	438,349	5,255,477	54,827	66,872	982,929	1,116,127
Alabama...	20	4,928	3,567	3,567	.....	.....	.....	1,361	.....	2,431	1,070	.....	61,210	2,333	1,202	652	.....
Arizona...	9	892	665	568	97	.....	.....	227	.....	414	187	.....	11,114	48	50,114	.....	.....
Arkansas...	12	2,560	2,560	2,550	10	.....	.....	3,976	.....	1,980	80	36,510	1,488	660	11,151	316,874	23,620
California...	37	7,877	3,901	3,702	134	65	95	1,199	.....	4,212	236						

POWER USED.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES—Continued.

Table 9—Contd.

STATE.	Number of establishments reporting.	Total horsepower.	PRIMARY HORSEPOWER.						Total, routed and generated by establishment reporting.	Generated in the establishment reporting.	ELECTRIC HORSEPOWER.						FUEL USED.							
			Owned by establishments reporting.								Rented.		Coal.		Coke (short tons).		Wood (cords).		Oil, including gasoline (barrels).		Gas (1,000 feet).			
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.			Electric.	Other.	Anthracite (long tons).	Bituminous (short tons).	Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).						
Illinois.	61	20,740	19,902	19,687	177	38	.....	823	15	12,291	11,468	6,825	602,367	4,025	6,232	50,636	11,197						
Indiana.	31	13,550	11,711	11,110	29	312	260	1,839	.....	4,216	2,377	2,371	274,918	2,390	3,634	12,005	12						
Iowa.	28	5,937	5,907	5,807	62	.....	38	30	.....	1,875	1,845	213	225,117	273	1,286	2,594	.....						
Kansas.	15	10,390	10,261	10,159	102	.....	.....	129	.....	4,924	4,795	120	283,122	412	661	35,953	473,472				
Kentucky.	23	4,094	4,936	4,936	.....	.....	.....	58	.....	4,521	4,463	54	63,390	2,094	.....	12,394	.....						
Louisiana.	21	1,799	1,406	1,406	.....	.....	35	343	50	343	.....	100	16,140	289	50	5,793	64,743				
Maine.	14	953	890	806	49	35	.....	63	.....	1,773	1,220	11,279	63,978	2,429	.....	109	.....						
Maryland.	16	7,308	3,755	3,755	.....	.....	.....	3,553	.....	5,139	4,829	146	45,753	7,719	208	11,288	367			
Massachusetts.	19	5,697	5,387	5,387	.....	.....	.....	310	.....	1,047	1,255	722	79,292	795	1,153	10,171	799			
Michigan.	30	5,742	3,377	3,365	12	.....	.....	2,295	70	3,463	1,168	.....	.....	.....	.....	.....	.....	
Minnesota.	27	10,680	9,967	9,609	358	.....	.....	713	.....	7,042	6,829	142	132,504	659	274	2,966	.....						
Mississippi.	10	2,232	2,065	2,065	.....	.....	.....	167	.....	628	461	.....	31,574	649	.....	2,391	.....						
Missouri.	31	9,042	8,408	8,379	29	.....	.....	634	.....	5,043	4,409	1,454	155,228	1,580	102	34,797	.....						
Montana.	12	2,670	1,878	1,824	54	.....	.....	792	.....	1,047	1,255	51,584	145	.....	334	.....	.....					
Nebraska.	12	6,616	6,595	6,572	22	.....	.....	1	21	2,201	2,180	27	363,945	151	3,123	4,066	191					
Nevada.	9	1,611	978	978	.....	.....	.....	633	.....	1,182	549	115	3,116	41	134	25,288	.....						
New Hampshire.	5	1,626	794	794	.....	.....	.....	832	.....	632	30	25	12,157	1,043	.....	6,204	895		
New Jersey.	19	7,640	7,122	6,657	465	.....	.....	518	.....	7,262	6,744	62,135	50,519	4	923	.....	.....					
New Mexico.	11	3,059	3,059	3,059	.....	.....	.....	1,294	1,294	1,294	1,294	59	40,712	110	20,800	1,944	.....						
New York.	61	21,423	16,031	15,886	145	.....	.....	5,392	.....	10,121	4,729	89,602	183,584	176	120	25,222	1,610				
North Carolina.	10	1,458	1,458	1,458	.....	.....	.....	1,184	1,184	1,184	1,184	.....	21,156	350	.....	.....	.....				
Ohio.	67	19,422	18,843	18,190	178	.....	475	569	10	10,250	9,681	187	379,198	2,012	7,414	23,014	227,694						
Oklahoma.	8	957	845	845	.....	.....	.....	112	.....	147	35	616	23,879	332	300	1,510	.....						
Oregon.	7	933	923	923	.....	.....	.....	10	.....	602	592	.....	2,816	.....	1,201	4,394	.....						
Pennsylvania.	113	56,774	53,511	53,137	349	.....	25	3,263	.....	34,774	31,511	255,490	643,881	6,962	7,576	75,061	134,868					
South Carolina.	9	1,029	1,029	1,023	6	.....	.....	.....	.....	81	81	9,289	24	.....	12	.....	.....					
Tennessee.	14	5,145	4,990	4,988	2	.....	.....	155	.....	2,915	2,160	.....	83,602	1,289	.....	4,300	.....						
Texas.	50	7,335	7,180	6,561	619	.....	.....	155	.....	2,398	2,243	598	68,085	3,339	1,826	233,947	15,166				
Utah.	6	1,735	1,330	1,330	.....	.....	.....	405	.....	1,244	839	9	36,698	997	152	986	.....						
Vermont.	6	965	705	705	.....	.....	.....	260	.....	260	260	185	7,794	216	152	.....	.....					
Virginia.	25	6,412	6,312	6,243	69	.....	100	.....	3,029	2,929	13	98,876	7,967	45	191	.....	.....					
Washington.	17	3,609	2,194	2,194	.....	.....	1,415	.....	2,221	806	2,082	29,555	88	726	2,803	.....	.....					
West Virginia.	21	5,394	5,394	5,324	60	.....	4	.....	2,767	2,767	.....	65,653	1,038	18	3,300	159,460					
Wisconsin.	20	4,196	4,186	4,186	6	.....	4	.....	778	778	3,556	113,175	369	542	2,365	.....	.....					
Wyoming.	9	1,550	1,425	1,425	.....	.....	.....	125	.....	210	85	4	552,801	108	151	973	.....						
All other states.	13	1,435	1,069	1,069	.....	.....	366	.....	540	174	.....	45,758	10	.....	17	.....	.....					

CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STREET-RAILROAD COMPANIES.

United States.	412	35,794	4,840	4,831	9	.....	30,954	.....	33,024	2,070	21,548	53,188	651	77	10,458	18,368
California.	17	2,055	120	120	.....	.....	1,935	.....	1,935	.....	105	882	.....	.....	9,502	45
Connecticut.	14	388	.....	.....	.....	.....	388	.....	388	.....	14	.....	.....	.....	.....	.....
Illinois.	20	2,225	600	600	.....	.....	1,625	.....	2,115	400	4	12,341	.....	.....	.....	109
Indiana.	22	713	241	241	.....	.....	472	.....	605	133	44	1,510	.....	.....	.....	.....
Maryland.	2	217	20	20	.....	.....	197	.....	214	17	.....	2,642	.....	.....	.....	.....
Massachusetts.	31	1,788	100	100	.....	.....	1,688	.....	1,778	90	140	2,527	.....	.....	.....	.....
Michigan.	14	1,704	625	625	.....	.....	1,079	.....	1,079	107	2,606	.....	.....	3	.....	.....
Missouri.	6	3,005	150	150	.....	.....	2,855	.....	3,345	490	4	2,927	4	.....	594	.....
New Jersey.	12	2,276	40	40	.....	.....	2,236	.....	2,236	2	2,339	.....	.....	302	1,258	.....
New York.	50	4,367	59	60	9	.....	4,298	.....	4,923	625	15,504	8,256	110	.....	48	1,500
Ohio.	44	3,635	805	805	.....	.....	2,830	.....	2,835	25	2,374	.....	.....	.....	2,004	.....
Pennsylvania.	39	4,370	2,070	2,070	.....	.....	4,370	.....	4,395	25	5,028	5,711	27	.....	1,680	.....
All other states.	141	9,051	.....	.....	.....	.....	6,981	.....	7,155	175	614	9,160	510	77	603	11,176

CARS, STEAM-RAILROAD, NOT INCLUDING OPERATIONS OF RAILROAD COMPANIES.

United States.	103	97,797	91,341	89,123	1,148	370	700	8,456	61,060	54,604	38,895	664,638	113,013	6,223	140,725	552,808
Delaware.	3	3,388	2,173	2,173	.....	.....	1,215	.....	2,780	1,565	149	13,400	320	.....	220	309
Illinois.	24	18,651	17,590	16,836	60	.....	1,055	.....	10,792	9,737	1,967	108,273	51,993	3,199	33,697	5,987
Indiana.	7	10,699	9,779	9,779	.....	.....	920	.....	5,807	4,887	2	122,422	11,756	.....	29,429	.....
Kansas.	2	320	145	145	.....	.....	175	.....	175	175	1,422	95	.....	.....	.....	.....
Massachusetts.	4	1,510	1,510	1,460	50	.....	438	.....	710	710	512	5,457	43	.....	4,309	.....
Missouri.	6	6,013	5,575	5,575	.....	.....	438	.....	4,702	4,924	.....	57,031	11,951	780	3,990	.....
New York.	4	3,345	3,100	3,100	.....	.....	245	.....	305	60	172	14,914	1,526	233	2,749	.....
Ohio.	6	4,410	4,380	4,125	255	.....	30	.....	5,590	5,560	36	18,430	2,383	.....	6,000	31,877
Pennsylvania.	13	31,732	31,576	31,025	551	.....	156	.....	19,971	19,915	34,516	109,365	9,703	.....	47,966	488,862
Tennessee.	3	1,400	1,125	1,125	.....	.....	275	.....	605	330	2,185	350	772	2,144	.....	55,768
All other states.	31	16,329	14,382	13,780	232	370	.....	1,947	.....	9						

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

CEMENT.

STATE.	PRIMARY HORSEPOWER.								ELECTRIC HORSEPOWER.		FUEL USED.							
	Number of establishments reporting.	Total horsepower.	Owned by establishments reporting.					Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.			Anthracite (long tons).	Bituminous (short tons).					
United States...	127	371,799	317,633	295,038	19,665	3,430	100	54,166	.....	158,749	104,583	259,220	4,815,758	4,103	5,540	1,515,697	14,721,568
California.....	7	28,892	2,020	2,000	20	.....	.....	26,872	.....	28,801	1,929	.....	.....	.....	10	891,130	.....
Illinois.....	6	15,270	14,750	14,750	.....	.....	.....	520	.....	8,833	8,313	502,367	.....	.....	16	.....	.....
Indiana.....	11	28,191	18,030	18,030	.....	.....	.....	10,161	.....	16,521	6,360	555,777	.....	.....	.....	.....	12,573,989
Kansas.....	5	61,754	61,754	54,104	7,650	.....	.....	13,528	.....	13,528	13,528	1,786	2,000	390,390	1,934	5,490	212
Michigan.....	13	21,773	21,773	20,025	148	1,600	.....	.....	.....	6,273	6,273	.....	.....	62,669	.....	.....	385
Missouri.....	4	3,750	3,750	3,750	.....	.....	.....	.....	.....	3,000	3,000	.....	.....	.....	.....	.....	.....
New Jersey.....	3	16,393	16,393	16,343	21,990	240	50	1,925	.....	4,330	4,330	44,166	545,919	.....	.....	.....	150
New York.....	15	24,385	22,460	22,460	130	100	900	2,275	3,350	32,627	207,445	222	30	20	.....	687,429	.....
Ohio.....	9	12,685	11,785	11,785	.....	.....	.....	3,270	2,470	.....	202,742	.....	.....	.....	.....	.....	.....
Pennsylvania.....	27	102,904	97,418	97,368	50	5,186	33,406	27,920	155,886	1,660,750	168	10	11,891	407,914	1,460,000
All other states....	27	55,802	47,500	34,893	11,007	1,600	8,302	35,112	26,810	17,755	682,699	1,779	10	407,914	1,460,000

CHEMICALS.

United States...	285	208,604	115,701	103,273	1,147	11,066	215	92,057	846	156,699	64,642	650,480	2,161,768	63,520	3,644	110,276	1,300,255	
Illinois.....	18	5,907	5,639	5,625	14	15	65	43	225	3,913	3,870	6,234	150,942	1,026	38	13,840	158	
Massachusetts.....	21	3,731	2,494	2,264	150	4	150	1,232	5	1,855	623	35,099	9,764	17	357	.....	.....
Michigan.....	14	20,594	23,835	23,681	4	150	.....	2,789	.....	5,281	2,522	1,065,882	320	2,194	2,440	.....	2,852
Missouri.....	9	886	855	855	.....	.....	.....	31	.....	221	190	40,069	736	.....	50	3,939	1,850
New Jersey.....	47	13,880	13,821	13,751	20	.....	50	8	51	3,855	3,827	215,265	70,734	1,863	50	.....	.....
New York.....	64	116,197	30,204	26,086	78	4,000	100	85,713	220	136,519	50,806	366,505	105,056	3,514	54	6,872	229,978	
Ohio.....	28	11,715	11,706	11,473	232	1	.....	.....	9	395	386	100,558	23,231	360	403	370,615	.....
Pennsylvania.....	32	9,771	9,271	8,671	600	.....	.....	500	1,875	1,375	57,575	298,534	6,008	126	27,378	35,723	.....
All other states....	52	19,923	17,816	10,867	49	6,900	1,762	345	2,805	1,043	4,900	228,894	17,008	843	68,849	139,248

CLOCKS AND WATCHES, INCLUDING CASES AND MATERIALS.

United States...	112	14,957	13,302	12,593	425	284	.....	1,612	43	7,023	5,411	11,221	55,169	540	59	7,546	88,628
Connecticut.....	16	4,273	4,236	3,949	19	268	.....	37	.....	1,880	1,849	366	17,329	.....	98	4,935	.....
Illinois.....	18	2,578	2,377	2,362	9	6	.....	201	.....	1,470	1,260	9	16,540	200	690	29,120	.....
Massachusetts.....	12	2,874	2,810	2,760	40	10	.....	64	.....	1,139	1,075	1,110	5,813	.....	54	1,526	14,463
New Jersey.....	9	1,414	750	560	190	.....	.....	651	13	784	133	4,119	804	1	5	1,199	1,220
New York.....	23	1,311	1,121	1,000	121	.....	.....	164	26	674	510	2,456	4,496	139	.....	1,828	9,933
Ohio.....	9	877	719	719	.....	.....	.....	156	2	212	56	5,219	200	1,285	27,916	705	934
Pennsylvania.....	8	1,033	915	870	45	.....	.....	116	2	631	515	3,151	700	8	155	107	.....
All other states....	17	597	374	373	1	.....	.....	223	.....	303	4	10	4,199	.....	.....	.....	.....

CLOTHING, MEN'S, INCLUDING SHIRTS.

United States...	4,402	42,725	22,648	18,003	5,259	1,380	6	18,816	1,261	22,894	4,078	55,770	89,342	1,013	1,344	8,904	828,622
California.....	52	540	120	120	7	5	.....	420	.....	467	47	24	3	1,321	9	1,909	781
Connecticut.....	20	418	312	300	7	30	.....	103	3	206	103	71	1,532	.....	189	35	.....
Georgia.....	22	290	107	77	30	20	3	2,737	4	2,849	112	1,848	15,001	51	52	3	51,754
Illinois.....	606	3,729	988	848	117	30	.....	611	5	698	87	4,646	4,646	25	25	3,337	.....
Indiana.....	38	784	168	113	55	.....	.....	.....	.....	.....	8	30	2,197	18	4	148	1,800
Iowa.....	27	479	240	195	45	25	.....	230	.....	247	8	30	3,583	37	117	157	.....
Kentucky.....	99	807	446	282	164	.....	.....	361	.....	443	82	.....	.....	.....	.....	35	.....
Louisiana.....	12	136	.....	79	13	25	.....	136	.....	136	.....	168	511	.....	37	117	.....
Maine.....	23	229	79	41	13	25	.....	945	.....	1,069	1,024	1,016	14,412	.....	88	834	26,334
Maryland.....	262	4,061	3,116	2,840	276	.....	.....	.....	.....	1,069	1,024	1,016	14,412	.....	88	834	26,334
Massachusetts.....	198	1,753	1,155	1,120	35	.....	.....	500	98	709	209	452	7,662	7	8	25	14,820
Michigan.....	38	1,151	631	627	4	8	.....	510	10	662	152	18	3,561	7	8	26	2,455
Minnesota.....	40	421	8	8	8	.....	.....	413	.....	417	4	38	557	45	477	279	10,279
Missouri.....	69	1,569	662	553	109	.....	.....	883	14	1,221	338	9	8,196	2	2	10,279	.....
Nebraska.....	11	323	20	20	.....	.....	.....	303	.....	303	.....	8	808	8	8	8	.....
New Jersey.....	121	1,351	937	693	240	4	.....	5,224	764	5,818	594	20,108	6,546	799	383	350	110,111
New York.....	1,723	13,821	7,833	4,304	2,518	1,011	.....	1,118	.....	138	20	24	535	8	133	300	.....
North Carolina.....	21	213	95	60	35	20	.....	1,119	.....	1,311	192	35	5,470	88	808	71,453	.....
Ohio.....	279	1,794	675	343	322	10	.....	.....	.....	.....	.....	80	96	13	13	13	130
Oregon.....	5	217	140	140	4	77	.....	420	186	409	10	5,254	193	80	45	924	1,505
Pennsylvania.....	492	5,288	3,434	2,520	861	50	3	1,668	186	2,522	854	15,940	5,037	131,776	131,776	583	583
Tennessee.....	32	503	226	106	24	96	.....	247	30	247	24	.....	1,090	1,090	142	142	72
Texas.....	25	359	179	150	20	.....	.....	150	.....	185	5	20	1,026	4	18	400	400
Vermont.....	11	323	122	55	32	67	.....	141	60	141	26	826	361	2	45	1	180
Virginia.....	19	346	186	154	32	.....	.....	157	3	183	26	6	903	10	96	58	8,791
Wisconsin.....	72	691	327	187	126	14	.....	364	.....	458	94	654	3,164	10	96	58	

POWER USED.

355

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

CLOTHING, WOMEN'S.

Table 9—Contd.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.								Total, rented and generated by establishment.	Generated in the establishment reporting.	FUEL USED.					
		Total horse-power.	Owned by establishments reporting.				Rented.		Coal.				Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.	Anthracite (long tons).	Bituminous (short tons).						
United States...	3,218	22,294	6,276	4,112	1,958	206	....	15,175	843	16,085	910	21,405	14,897	76	203	1,295	377,872
California.....	60	137	....	....	....	....	....	122	15	122	....	....	....	....	....	....	1,403
Connecticut.....	13	461	369	335	34	....	....	80	12	165	85	42	1,686	....	2	90	505
Illinois.....	200	804	20	....	20	....	....	771	13	771	....	167	857	....	1	93	7,436
Indiana.....	17	196	2	....	2	....	....	174	20	174	....	52	731	....	2	8	235
Iowa.....	17	123	21	....	....	20	1	....	102	....	122	20	31	462	10	....	837
Maine.....	6	142	....	....	....	....	....	102	40	102	....	....	....	....	....	40	6
Maryland.....	63	370	136	45	91	....	....	234	....	234	....	425	622	....	5	79	5,998
Massachusetts.....	165	1,024	248	210	38	....	....	650	128	650	....	380	1,122	....	6	42	8,600
Michigan.....	50	581	210	185	25	....	....	351	20	351	....	81	1,596	38	....	60	1,427
Missouri.....	65	487	105	105	....	....	....	382	....	448	66	32	1,329	....	12	12	1,843
New Jersey.....	88	959	614	403	206	....	....	239	106	318	79	1,898	669	....	361	12,714	....
New York.....	1,872	12,379	3,184	1,939	1,095	150	....	8,850	336	9,266	407	14,120	1,886	3	28	407	271,032
Ohio.....	148	1,505	565	170	380	15	....	925	15	992	67	889	1,983	11	....	28	44,195
Pennsylvania.....	365	2,514	618	588	30	....	....	1,772	124	1,958	186	3,135	1,592	....	26	26	18,125
Wisconsin.....	18	64	....	....	....	....	....	63	1	63	....	12	132	....	....	373	....
All other states....	71	548	184	127	17	40	....	349	15	349	....	141	700	9	159	49	3,083

COKE.

United States...	139	62,602	47,963	44,591	1,212	500	1,660	13,754	886	41,064	27,310	....	59,030,005	34,622	84	21	5,615,712
Alabama.....	19	5,766	5,706	5,246	....	460	....	60	1,173	1,173	....	5,156,407	....	....	....	....	....
Pennsylvania.....	63	26,091	18,777	17,075	2	500	1,200	6,489	825	14,805	8,376	....	36,884,592	13,668	50	....	348,958
Virginia.....	9	1,760	625	625	....	....	....	1,135	....	1,205	160	....	2,067,112	....	....	....	....
West Virginia.....	28	5,307	3,981	3,981	....	....	....	1,326	....	5,242	3,916	....	6,372,577	....	....	6,000	....
All other states....	20	23,678	18,874	17,664	1,210	....	....	4,804	....	18,489	13,685	....	8,547,317	20,964	34	21	5,260,754

CONFECTIONERY.

United States...	1,106	35,870	26,518	25,090	1,408	8	12	8,607	745	16,983	8,376	72,630	169,556	18,052	1,842	5,662	404,626	
California.....	64	582	82	82	....	....	....	500	....	500	....	....	236	230	51	3,673	76,966
Georgia.....	12	583	375	375	....	....	....	208	....	208	....	....	344	4,136	459	28	17,461
Illinois.....	85	3,417	2,839	2,732	107	....	....	520	52	1,965	1,439	154	28,005	1,558	66	49	20,595
Indiana.....	38	624	537	403	129	....	....	87	....	382	205	304	6,103	939	....	35	4,889
Iowa.....	28	646	496	470	14	12	144	6	331	137	27	5,242	959	4	12	2,122
Kentucky.....	17	339	217	193	24	....	....	122	....	132	10	....	3,728	497	....	....	1,288
Maryland.....	28	1,424	1,260	1,240	20	....	....	164	....	243	79	281	15,869	2,199	42	8	2,290
Massachusetts.....	80	4,278	3,254	3,056	198	....	....	909	115	2,570	1,661	4,567	13,807	987	61	17	12,777
Michigan.....	34	812	410	393	17	....	....	402	....	436	34	202	5,297	781	3	15	3,059
Minnesota.....	20	505	364	337	27	....	....	141	....	225	84	178	3,121	484	....	1	3,871
Missouri.....	35	1,268	1,095	1,073	22	....	....	173	....	550	377	....	12,842	709	....	18	23,135
New Jersey.....	42	1,181	942	910	32	....	....	224	15	338	114	5,062	2,973	43	4	80	4,222
New York.....	150	7,968	5,902	5,586	316	....	....	1,709	355	3,182	1,473	40,063	9,728	1,199	19	40	30,684
Ohio.....	78	2,005	1,352	1,185	165	2	....	653	....	892	239	12	10,315	408	....	32	45,150
Pennsylvania.....	121	3,809	3,044	2,874	170	....	....	671	154	1,579	908	16,412	11,618	312	123	6	92,360
Tennessee.....	23	1,154	1,065	1,061	4	....	....	89	....	333	244	243	9,632	758	12	3	1,007
Texas.....	25	607	352	292	60	....	....	231	24	271	40	18	5,460	346	102	481	2,213
Utah.....	13	532	250	250	....	....	....	282	....	334	52	....	2,613	826	5	7	1,582
Washington.....	29	333	142	142	....	....	....	191	....	221	30	....	2,381	774	416	13	4,750
Wisconsin.....	19	1,327	1,140	1,140	....	....	....	187	....	934	747	1,161	5,740	1,763	87	5,492	....
All other states....	165	2,418	1,400	1,291	103	6	....	994	24	1,357	363	3,102	10,710	2,321	819	1,172	48,713

COOPERAGE AND WOODEN GOODS, NOT ELSEWHERE SPECIFIED.

United States...	735	65,108	60,918	54,971	2,029	3,818	100	2,819	1,371	4,524	1,705	10,240	88,043	5,281	13,959	9,983	74,930
Arkansas.....	5	2,400	2,400	2,400	....	....	....	204	35	402	198	32	22,823	1,110	....	620	390
Illinois.....	46	5,247	5,008	4,968	40	....	....	62	....	82	20	....	7,882	165	1,047	35	....
Indiana.....	27	2,441	2,379	2,352	27	....	....	44	....	44	....	....	2,749	226	1,314	30	....
Kentucky.....	25	2,726	2,682	2,648	34	....	....	283	....	303	20	....	1,788	199	178	1	....
Louisiana.....	10	1,315	1,032	1,028	4	....	....	....	....	....	....	....	....	....	....	....	....
Massachusetts.....	36	2,863	2,517	1,625	76	816	....	322	24	342	20	127	2,384	210	240	105	....
Michigan.....	44	8,500	8,304	8,195	4	105	....	193	....	199	3	30	4,131	5	1,067	8	12
Minnesota.....	24	1,755	1,683	1,620	54	....	....	47	25	47	....	....	3,576	25	12	81	....
Missouri.....	23	2,819	2,112	2,065	47	....	....	207	....	327	120	....	4,768	324	25	77	68
New Hampshire.....	29	3,180	2,057	1,504	12	541	....	8	1,115	8	....	13	72	....	356	7	....
New Jersey.....	23	1,613	1,532	1,448	84	....	....	81	....	84	3	2,324	644	231	10	1,646	2,542
New York.....	93	4,278	4,012	3,053	257	602	100	229	37	546	317	6,786	9,520	1,390	269	954	600
Ohio.....	53	3,453	3,296	3,076	220	....	....	127	30	173	46	110	8,040	334	12	18	11,518
Pennsylvania.....	60	3,681	3,484	2,920	392	163	....	176	21	182							

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

COPPER, TIN, AND SHEET-IRON PRODUCTS.

STATE.	Number of establish- ments re- porting.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.		FUEL USED.								
		Total horse- power.	Owned by establishments reporting.					Rented.	Total, rented and gen- erated in the estab- lishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).				
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.			Anthra- cite (long tons).	Bitumi- nous (short tons).								
United States...	1,374	62,368	43,647	34,650	8,572	420	5	17,898	821	30,771	12,873	51,448	334,754	14,917	4,027	85,096	1,337,837		
California...	75	1,367	115	—	114	1	—	1,252	—	1,270	18	15	154	207	107	1,180	5,644		
Connecticut...	27	1,526	1,372	1,282	32	53	5	154	—	319	165	1,169	11,023	135	255	203	1,876		
Georgia...	10	409	180	180	—	—	—	—	—	229	109	132	1,042	—	32	2	—		
Illinois...	159	5,510	3,845	3,133	412	—	—	—	1,719	246	2,382	663	1,907	62,767	440	416	1,333	27,499	
Indiana...	36	1,637	1,401	1,316	85	—	—	—	230	—	865	629	401	37,985	10	22	216	1,505	
Iowa...	19	1,925	261	220	41	—	—	1,054	10	1,829	175	95	2,370	70	23	181	2,894		
Louisiana...	19	1,173	611	502	49	—	—	—	—	502	123	—	2,475	294	251	653	832		
Maryland...	44	5,532	5,107	4,843	264	—	—	—	—	410	15	2,701	2,291	853	26,834	489	4,086	23,286	
Massachusetts...	72	1,898	1,152	909	219	24	—	—	—	550	106	787	237	2,061	6,193	659	6	9,130	
Michigan...	55	1,875	1,345	1,204	141	—	—	—	—	505	25	635	130	146	9,867	484	105	4,054	
Minnesota...	40	507	210	142	68	—	—	—	297	—	372	75	200	1,592	47	302	135	1,283	
Missouri...	54	1,556	832	641	191	—	—	—	—	704	20	1,049	345	77	5,921	538	99	12,155	
New Jersey...	65	3,579	3,056	2,528	278	250	—	—	—	485	38	1,701	1,216	9,177	8,247	399	20	1,583	
New York...	234	13,108	7,823	6,587	1,166	70	—	—	5,067	218	6,612	1,545	21,497	40,518	3,345	228	57,256	78,198	
Ohio...	118	6,352	5,055	3,076	1,077	2	—	—	1,252	45	2,274	1,022	1,731	70,844	2,895	9	1,104	318,942	
Pennsylvania...	117	8,245	7,257	5,051	2,206	—	—	—	—	925	63	3,539	2,614	11,376	19,276	2,010	212	424	606,245
Tennessee...	9	154	90	80	10	—	—	—	—	64	—	102	98	—	3,542	825	142	15	314
Texas...	21	211	73	6	67	—	—	—	—	138	—	—	4	113	2	3	207	176	
Virginia...	9	296	250	230	20	—	—	—	—	46	—	—	12	3,646	10	5	155	39	
Washington...	18	297	10	10	—	—	—	—	—	197	—	197	—	—	39	80	983	91	716
West Virginia...	10	973	960	—	960	—	—	—	—	13	—	234	221	—	722	—	—	—	186,857
Wisconsin...	35	2,325	2,015	1,886	129	20	—	—	—	310	—	1,222	912	115	14,435	1,692	28	8,687	20,087
All other states...	128	2,091	927	764	143	—	—	—	—	1,129	35	1,414	285	480	5,149	286	775	1,520	22,502

CORDAGE AND TWINE AND JUTE AND LINEN GOODS.

United States...	158	78,549	75,908	58,855	1,285	15,768	—	2,522	119	15,816	13,294	69,397	181,462	—	392	22,113	31,273	
Illinois...	7	8,459	6,310	6,300	10	—	—	—	149	—	261	112	—	36,293	—	30	—	
Kentucky...	5	1,801	1,650	1,400	250	—	—	—	151	—	161	10	—	13,375	—	59	2,031	812
Massachusetts...	29	24,864	24,769	12,180	1,204	11,385	—	—	38	59	5,793	5,757	2,633	40,425	—	—	—	—
Missouri...	4	1,683	1,683	1,683	—	—	—	60	2	—	2,213	2,211	27,095	1,223	—	—	—	—
New Jersey...	11	6,442	6,440	6,350	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New York...	14	15,056	14,704	14,336	8	370	—	—	292	—	3,629	3,337	26,748	32,532	—	—	877	—
Ohio...	8	3,225	3,225	3,205	20	—	—	—	—	—	75	75	—	13,390	—	200	—	—
Pennsylvania...	17	4,630	4,593	4,462	11	120	—	—	—	37	230	193	12,772	7,534	—	2	120	281
All other states...	61	14,389	12,474	8,860	32	3,583	—	1,855	60	3,454	1,599	148	27,192	—	331	19,932	29,503	—

CORSETS.

United States...	111	4,581	3,376	3,320	56	—	—	1,061	144	2,804	1,743	3,644	17,900	1,429	3	31	6,090	
Connecticut...	17	1,566	1,449	1,409	40	—	—	—	112	5	955	843	427	9,658	—	1	2	2,110
Illinois...	14	541	368	368	6	—	—	—	175	—	345	170	1,668	560	874	—	29	669
Massachusetts...	10	455	375	375	—	—	—	—	40	40	197	157	—	1,557	—	2	491	—
Michigan...	13	734	510	510	—	—	—	—	224	—	532	308	35	4,044	2	2	211	—
New Jersey...	9	480	410	410	—	—	—	—	37	33	206	169	551	1,351	—	—	191	—
New York...	29	523	100	100	—	—	—	—	359	64	395	36	252	600	200	—	502	—
All other states...	19	282	166	156	10	—	—	—	114	2	174	60	711	130	353	—	916	—

COTTON GOODS, INCLUDING COTTON SMALL WARES.

United States...	1,324	1,298,517	1,183,037	869,838	2,812	303,024	7,363	105,512	4,968	235,902	127,390	415,604	3,327,802	20,605	130,572	38,792	278,258	
Alabama...	51	42,637	42,637	31,775	—	10,712	150	—	162	—	3,917	3,917	190,836	—	3,812	40	—	
Connecticut...	52	58,137	57,976	31,628	36	26,311	—	—	—	—	3,882	3,720	26,603	83,617	5,100	77	38	
Georgia...	116	92,976	84,967	63,028	21,748	196	—	6,812	1,200	13,992	7,180	6	356,218	2,500	19,033	587	—	
Illinois...	5	2,020	1,975	1,975	—	—	—	45	—	504	459	—	13,171	—	—	—	210,300	
Indiana...	7	5,315	5,315	5,315	—	—	—	—	—	20	20	—	43,828	—	—	—	—	
Kentucky...	4	3,150	3,150	3,000	—	159	—	—	—	—	—	—	21,356	—	—	—	—	
Maine...	16	53,323	51,528	20,585	—	30,943	—	2,295	—	10,070	7,775	—	796	61,531	—	576	903	—
Maryland...	16	13,128	13,043	10,060	—	2,983	—	—	10	—	38	23	100	31,998	78	—	—	—
Massachusetts...	182	362,043	354,437	292,124	1,736	60,510	67	7,377	229	47,441	40,004	166,788	918,635	924	530	4,828	31,855	—
Mississippi...	14	8,045	8,045	8,045	—	—	—	—	421	—	421	421	31,103	9,990	—	—	—	—
New Hampshire...	21	83,966	79,650	46,704	—	32,946	—	4,011	305	14,119	10,108	50	186,279	7,395	120	1,700	18,864	—
New Jersey...	26	17,288	17,249	16,604	30	615	—	29	10	1,197	1,168	48,596	29,905	—	1	1,365	—	—
New York...	47	33,351	30,051	18,505	152	9,654	1,740	3,269	34	6,664	3,395	39,624	85,025	—	13	43	3,953	—
North Carolina...	281	104,606	120,9															

POWER USED.

357

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

CUTLERY AND TOOLS, NOT ELSEWHERE SPECIFIED.

Table 9—Contd.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.		FUEL USED.						
		Total horse-power.	Owned by establishments reporting.					Rented.	Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.			Anthracite (long tons).	Bituminous (short tons).					
United States...	846	68,294	58,928	38,780	6,731	13,382	35	8,325	1,041	17,785	9,460	47,253	188,201	11,248	2,103	77,194	747,731
Connecticut.....	75	14,135	12,774	7,205	435	5,134	—	921	440	2,864	1,943	17,449	43,852	2,335	498	6,017	9,996
Illinois.....	70	2,385	1,822	1,628	187	7	—	509	54	752	243	217	13,442	377	42	5,814	5,886
Indiana.....	20	1,733	1,405	1,300	105	—	—	328	2	326	—	155	8,073	927	6	3,273	2,709
Massachusetts.....	129	13,263	11,374	7,024	470	3,880	—	1,708	181	3,779	2,071	5,924	22,993	943	517	23,190	2,610
Michigan.....	33	1,379	1,152	1,015	137	—	—	228	1	409	183	600	5,047	444	154	335	1,255
New Jersey.....	56	2,540	2,201	1,414	777	10	—	179	160	209	30	6,129	7,217	254	6	2,432	4,087
New York.....	138	6,571	5,220	2,470	565	2,191	—	1,278	67	1,818	540	5,303	10,930	1,741	56	5,487	104,897
Ohio.....	66	6,567	5,693	4,767	926	—	—	834	40	1,816	982	1,087	17,977	1,849	2	4,682	229,058
Pennsylvania.....	113	11,311	10,259	7,088	2,397	774	—	1,036	16	2,314	1,278	8,597	48,280	1,563	8	8,162	349,181
West Virginia.....	4	3,445	3,445	3,025	420	—	—	—	—	1,635	1,635	—	56	255	—	12,123	34,933
All other states....	142	4,965	3,577	1,844	312	1,386	35	1,308	80	1,863	555	1,792	10,334	560	814	5,669	3,139

DYING AND FINISHING TEXTILES.

United States...	388	107,746	103,605	92,284	1,207	10,114	—	2,655	1,476	24,011	21,346	593,093	889,216	2,576	746	10,037	64,657
Connecticut.....	10	5,851	5,851	2,011	15	2,925	—	—	—	974	974	1,456	53,795	—	10	993	8,850
Massachusetts.....	46	24,513	23,956	21,466	—	2,490	—	370	187	7,524	7,154	106,083	171,315	2,016	—	1,143	46
New Jersey.....	61	19,989	19,821	18,965	16	540	—	401	87	3,607	3,206	304,610	109,535	190	—	1,640	39,122
New York.....	63	8,750	7,588	7,239	114	235	—	758	404	1,284	526	49,371	65,844	2	74	24	7,953
Pennsylvania.....	126	13,560	12,988	12,829	62	95	—	203	371	1,513	1,310	69,512	166,532	228	—	22	5,766
Rhode Island.....	44	21,170	20,987	18,131	1,000	1,856	—	75	117	6,248	6,173	57,061	192,327	140	—	6,213	7,443
All other states....	38	13,904	12,716	10,743	—	1,973	—	858	330	2,561	2,003	5,000	109,863	—	27	2	487

ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.

United States...	913	158,768	107,764	99,883	6,753	1,114	14	50,045	959	164,540	114,495	87,096	632,870	20,123	2,013	104,487	1,761,969
Connecticut.....	39	4,457	3,385	3,040	27	318	—	1,032	40	2,117	1,085	485	18,771	—	119	257	3,229
Illinois.....	115	11,636	9,535	9,258	277	—	—	2,018	83	10,658	8,638	166	71,903	5,720	1	1,100	235,983
Indiana.....	37	5,285	4,705	4,407	284	—	14	580	—	2,388	1,808	702	21,298	32	—	4,088	61,160
Massachusetts.....	80	14,835	12,939	12,545	214	180	—	1,820	76	29,188	27,368	7,946	103,916	4,154	40	27,066	241,011
Michigan.....	37	1,355	651	500	151	—	—	704	—	888	184	67	3,492	185	—	623	12,263
Missouri.....	20	1,180	531	500	31	—	—	642	7	1,432	790	—	5,977	16	1	610	6,156
New Jersey.....	62	11,326	9,679	9,341	133	205	—	1,544	103	8,691	7,147	26,633	45,910	549	30	3,248	74,505
New York.....	196	53,813	34,105	33,854	233	18	—	19,485	223	71,599	52,114	44,898	139,883	5,303	36	34,605	80,946
Ohio.....	105	11,959	8,627	6,306	2,306	15	—	3,200	132	10,829	7,629	1,063	65,015	2,443	—	6,452	615,288
Pennsylvania.....	80	33,829	16,196	14,332	1,844	20	—	17,576	57	19,853	2,277	3,876	116,955	946	—	10,223	131,762
Rhode Island.....	11	2,837	2,798	2,728	70	—	—	31	8	414	383	470	16,932	30	—	5,223	807
Wisconsin.....	29	2,333	2,067	1,910	157	—	—	261	5	4,023	3,762	345	14,467	729	14	6,282	3,974
All other states....	102	3,923	2,546	1,162	1,096	288	—	1,152	225	2,462	1,310	445	8,344	16	1,772	4,687	293,816

FANCY ARTICLES, NOT ELSEWHERE SPECIFIED.

United States...	331	8,310	6,062	5,131	479	452	—	1,783	485	4,115	2,332	8,497	22,083	1,323	63	2,725	22,277
Massachusetts.....	69	2,382	1,006	1,098	16	192	—	385	91	474	80	697	8,816	1	41	7	1,444
Michigan.....	9	57	3	—	—	3	—	78	5	79	—	1,036	5	—	—	—	145
New Jersey.....	19	730	479	429	50	—	—	235	16	235	—	3,940	807	—	—	2,010	2,068
New York.....	102	2,785	2,286	2,136	135	15	—	240	250	2,439	2,190	2,362	5,659	1,300	7	101	10,918
Pennsylvania.....	33	498	325	272	53	—	—	108	65	1,383	283	25,183	1,167	605	1	1	2,859
All other states....	99	1,828	1,063	596	325	242	—	727	38	780	53	331	5,140	—	17	606	4,843

FERTILIZERS.

United States...	485	64,711	51,967	49,740	1,825	365	37	12,578	165	19,238	6,659	20,698	462,023	6,148	9,795	19,721	111,859
Alabama.....	42	4,484	2,845	2,745	73	—	27	1,614	25	1,684	70	33,549	—	420	85	—	—
Florida.....	12	1,710	1,365	970	395	—	—	345	—	1,279	934	280	4,956	—	702	—	—
Georgia.....	91	10,488	6,493	5,893	600	—	—	3,995	—	4,577	582	43,977	25	4,333	377	—	848
Maryland.....	30	5,324	4,224	4,090	84	50	—	1,100	—	1,383	283	25,183	10	10	61	—	150
New Jersey.....	18	2,459	2,459	2,424	35	—	—	—	—	1,368	1,368	11,479	30,304	—	10	50	7
New York.....	14	2,799	1,650	1,625	25	—	—	1,039	110	1,114	75	2,177	18,645	4,507	—	—	—
North Carolina.....	32	3,132	2,597	2,537	60	—	—	535	—	547	12	19,220	—	1,270	74	—	—
Ohio.....	24	3,059	2,819	2,689	130	—	—	240	—	555	345	34,111	—	50	—	—	11,306
Pennsylvania.....	46	5,174	4,967	4,852	10	105	—	177	30	981	804	4,701	55,930	583	—	17	—
South Carolina.....	26	4,766	4,379	4,338	41	—	—	387	—	607	220	45,046	—	986	27	—	—
Tennessee.....	10	2,152	1,799	1,709	—	—	—	353	—								

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

FIREARMS AND AMMUNITION.

STATE.	PRIMARY HORSEPOWER.									ELECTRIC HORSEPOWER.		FUEL USED.					
	Number of establishments reporting.	Total horsepower.	Owned by establishments reporting.					Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.			Anthracite (long tons).	Bituminous (short tons).				
United States...	55	17,840	15,421	10,741	2,927	989	764	2,278	141	8,472	6,194	18,119	76,102	949	2,035	24,516	27,706
Connecticut...	10	9,391	8,880	5,888	2,850	142	-----	451	60	6,328	5,877	12,284	34,092	232	25	13,280	20,065
Massachusetts...	8	3,059	2,280	1,780	-----	450	50	704	75	400	14,768	14,768	7,641	13	5	3,831	572
New York...	6	2,312	1,330	1,030	-----	300	-----	982	-----	982	-----	1,288	9,641	500	4	2,093	1,870
Ohio...	4	1,129	1,079	365	-----	714	50	50	6	50	-----	4,147	9,980	204	2,001	5,312	966
All other states...	27	1,049	1,852	1,678	77	97	-----	91	6	408	317	-----	-----	-----	-----	-----	4,233

FLOUR-MILL AND GRISTMILL PRODUCTS.

United States...	11,691	853,584	800,383	473,383	62,681	264,131	208	49,901	3,300	67,066	17,165	67,459	1,880,702	3,347	202,748	424,386	3,037,008
California...	125	11,545	8,201	7,098	414	689	-----	3,344	-----	3,502	158	55	471	-----	871	150,634	-----
Illinois...	461	38,472	36,931	34,095	1,631	1,055	90	1,541	-----	1,945	404	1,670	109,864	580	1,753	20,387	-----
Indiana...	503	38,502	37,101	34,368	2,001	642	-----	1,401	-----	1,688	287	181	189,970	1,344	6,844	915	105,193
Iowa...	277	18,832	17,742	11,407	899	5,438	-----	1,080	10	1,146	66	356	56,061	2	196	1,038	3,603
Kansas...	501	46,218	44,703	32,100	5,197	7,402	4	1,365	150	2,885	1,521	5,655	121,324	9	333	101,832	918,260
Kentucky...	440	24,773	24,471	18,715	1,331	4,425	-----	302	-----	503	201	45	87,285	390	14,995	1,640	15,780
Maryland...	295	13,507	13,609	5,862	1,196	6,551	-----	198	-----	246	48	1,012	18,257	-----	4,859	804	871
Michigan...	520	38,991	37,162	17,648	2,825	16,689	-----	1,829	-----	2,488	659	1,035	77,069	5	7,258	2,396	867
Minnesota...	322	93,649	91,187	54,129	1,871	35,687	-----	2,662	-----	7,342	4,630	4,572	249,807	60	17,338	1,796	160
Missouri...	680	43,175	42,504	36,804	2,172	3,468	-----	671	-----	903	232	326	137,614	98	41,428	27,191	21,999
Nebraska...	249	19,907	19,508	10,580	1,501	7,427	-----	399	-----	474	75	741	61,036	94	2,610	-----	-----
New York...	983	79,098	71,191	27,440	7,656	36,039	56	6,014	1,893	10,916	4,902	7,515	93,485	60	1,370	7,372	630,395
Ohio...	673	52,250	51,518	34,091	6,832	9,695	-----	1,573	-----	1,573	388	169,236	-----	2,776	1,090	770,887	
Oklahoma...	295	16,400	15,197	12,536	2,581	80	-----	1,203	-----	1,229	26	406	47,077	-----	1,226	18,054	138,737
Pennsylvania...	1,490	69,212	67,299	25,205	9,055	33,039	-----	1,808	105	2,040	232	34,760	63,485	214	1,722	3,539	125,595
Tennessee...	454	27,176	26,165	17,934	340	7,832	-----	866	155	1,008	140	86	88,636	230	17,626	936	35,988
Texas...	238	20,765	18,842	16,016	2,388	1,408	-----	863	60	1,514	651	-----	65,625	-----	3,387	75,315	4,700
Virginia...	458	21,454	19,786	5,648	1,078	13,052	8	1,650	12	1,876	220	4	19,744	-----	3,876	1,007	-----
Washington...	96	11,773	5,931	3,260	180	2,511	-----	5,842	-----	5,887	45	2	4,601	-----	6,318	8,304	-----
Wisconsin...	322	31,903	30,496	14,440	1,911	14,055	-----	1,202	235	1,540	278	3,057	46,354	7	14,389	1,947	1,224
All other states...	2,289	135,482	119,839	53,028	10,022	56,839	50	14,863	680	16,362	1,499	5,599	175,701	348	54,253	16,213	278,350

FOOD PREPARATIONS.

United States...	908	55,166	41,035	35,283	4,331	1,150	271	13,460	671	20,924	7,464	31,712	272,392	9,092	1,900	35,832	368,195
California...	100	1,959	885	720	140	25	-----	1,074	-----	120	90	65	322	311	521	13,300	5,526
Illinois...	50	5,070	4,350	3,936	189	225	-----	701	19	1,023	323	43,253	930	181	335	1,104	-----
Iowa...	18	3,124	2,874	2,762	37	75	-----	250	-----	2,166	1,916	4	30,446	1,869	-----	289	6,410
Michigan...	44	8,983	5,487	5,163	24	240	-----	3,496	-----	6,185	2,689	2,330	47,641	3,827	35	38,988	-----
New Jersey...	10	1,721	1,423	1,166	62	195	-----	271	27	845	374	1,935	8,322	1,086	13	14	2,216
New York...	134	6,061	3,503	3,182	315	-----	6	2,250	308	2,502	342	13,600	25,130	152	1	106	29,951
Ohio...	45	3,254	3,023	2,667	356	-----	-----	231	-----	236	5	13	17,695	-----	62	110,621	-----
Pennsylvania...	94	2,685	2,277	1,655	497	125	-----	398	10	852	454	5,775	3,484	133	13	12	45,321
Wisconsin...	18	2,738	2,684	2,529	155	265	265	54	307	331	277	335	14,435	52	19	62	38,136
All other states...	331	19,571	14,529	11,503	2,496	-----	-----	4,735	-----	6,774	995	7,422	81,664	732	1,152	21,558	83,942

FOUNDRY AND MACHINE-SHOP PRODUCTS.

United States...	12,371	869,305	664,628	546,206	98,966	18,702	2,754	192,977	11,700	623,914	430,937	624,958	4,220,640	1,919,916	119,628	677,828	13,637,341
Alabama...	99	9,859	7,954	7,615	258	81	-----	1,905	-----	7,098	5,193	65,783	107,547	6,043	800	12	-----
California...	512	17,253	5,222	2,548	2,428	216	30	11,926	105	12,882	956	1,178	3,915	15,629	1,068	75,852	20,032
Colorado...	99	4,325	1,617	1,565	43	9	-----	2,708	-----	3,103	395	16	15,026	11,724	774	1,674	-----
Connecticut...	338	49,167	38,794	32,541	1,851	2,330	72	8,749	1,624	23,878	15,129	47,766	197,347	40,306	5,427	43,325	402,164
Delaware...	37	4,270	2,903	2,872	91	-----	-----	1,307	-----	3,832	2,525	2,037	31,910	5,223	302	4,179	779
District of Columbia...	22	571	257	183	74	-----	-----	314	-----	314	22	65	1,535	708	19	13	1,446
Florida...	32	725	344	207	137	-----	-----	381	-----	403	22	32	663	1,719	1,747	306	200
Georgia...	103	5,244	3,932	3,574	214	144	-----	1,312	-----	2,543	1,231	90	19,974	11,047	6,439	607	999
Illinois...	1,078	92,831	67,909	63,002	3,250	1,337	320	24,290	632	56,459	32,169	9,641	685,292	530,177	13,405	84,109	6,103,955
Indiana...	400	29,108	21,653	17,840	3,533	115	165	6,627	828	15,004	8,377	1,157	278,399	43,757	2,332	27,221	20,514
Iowa...	250	8,402	6,098	4,920	1,138	12	22	2,267	37	2,733	1,341	495	34,315	20,282	1,105	603	19,691
Kansas...	122	4,304	2,784	1,829	955	236	-----	1,560	20	2,247	687	304	9,631	12,477	533	6,391	143,341
Kentucky...	121	8,089	6,420	5,368	461	-----	600	1,630	30	4,123	2,493	36	74,600	23,953	279	10,283	33,236
Louisiana...</																	

POWER USED.

359

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

FOUNDRY AND MACHINE-SHOP PRODUCTS—Continued.

Table 9—Contd.

STATE.	PRIMARY HORSEPOWER.								ELECTRIC HORSEPOWER.		FUEL USED.						
	Number of establishments reporting.	Total horse-power.	Owned by establishments reporting.				Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.		Electric.	Anthracite (long tons).	Bituminous (short tons).					
North Carolina.....	100	2,700	1,377	1,038	278	61	...	1,309	14	1,331	22	139	4,276	4,454	2,601	576	125
Ohio.....	1,172	112,538	97,336	77,908	18,612	690	38	14,381	821	72,470	58,089	18,730	690,612	193,393	4,458	60,917	1,533,226
Oregon.....	77	2,700	598	498	49	50	...	2,111	...	2,111	154	...	608	2,560	2,351	4,469	275
Pennsylvania.....	1,612	162,414	142,703	108,413	32,918	1,007	365	18,591	1,120	118,785	100,194	201,535	770,178	270,793	9,974	116,179	4,130,380
Rhode Island.....	140	11,033	6,717	6,098	516	148	25	3,970	346	6,454	2,484	17,110	33,883	10,179	563	2,202	9,698
Tennessee.....	117	7,488	4,971	4,844	117	10	...	2,517	...	4,335	1,818	11	46,889	43,801	1,635	746	875
Texas.....	133	5,287	3,120	2,031	463	8	2,082	55	...	2,723	641	202	13,186	16,075	4,003	15,025	32,901
Vermont.....	52	4,519	3,740	1,582	217	1,641	300	756	...	2,125	1,369	1,222	9,001	1,636	330	374	497
Virginia.....	103	4,012	2,579	2,118	249	212	...	1,423	10	3,785	2,362	490	31,520	23,178	1,602	4,355	774
Washington.....	171	5,117	1,556	1,433	123	...	...	3,551	10	3,651	100	100	4,514	8,373	7,451	4,332	832
West Virginia.....	80	3,539	3,429	1,741	1,688	110	...	...	...	1,535	1,425	32	9,265	8,899	16	46	233,273
Wisconsin.....	422	33,709	29,756	24,359	4,602	645	150	3,852	101	35,205	31,453	9,544	267,670	60,431	4,042	56,585	68,312
All other states....	249	5,064	2,615	1,718	817	30	50	2,363	86	2,619	256	209	11,156	9,092	2,180	3,696	60,812

FUR GOODS.

United States...	418	2,120	681	648	33	...	1,430	9	1,440	10	2,212	7,022	45	80	21	16,517
Michigan.....	24	292	188	188	...	...	41	3	41	...	278	3,873	...	...	...	249
Minnesota.....	26	288	36	76	10	...	...	...	212	10	29	527	30	13	13	322
New York.....	241	1,102	240	240	...	...	856	6	846	...	1,607	952	13	8	4	10,753
All other states....	127	498	167	144	23	...	331	...	331	...	293	1,670	2	59	4	5,192

FURNISHING GOODS, MEN'S.

United States...	583	12,116	8,721	7,501	740	480	...	2,988	407	4,860	1,872	15,872	33,615	32	194	2,596	80,512
Connecticut.....	13	1,674	1,648	1,328	65	255	...	21	5	248	227	3,040	7,602	...	8	5	547
Illinois.....	51	798	472	470	2	...	...	272	52	434	162	33	2,936	...	12	1,020	
Indiana.....	32	520	128	66	62	...	...	392	...	392	...	130	738	25	...	67	588
Massachusetts.....	47	2,306	1,817	1,619	65	133	...	316	173	453	137	815	9,268	...	78	184	6,999
New Jersey.....	19	973	887	877	10	...	...	76	10	534	458	2,508	2,903	...	5	...	1,893
New York.....	159	8,284	2,455	2,401	39	15	...	713	116	1,541	828	9,118	8,064	...	1,794	...	27,695
Ohio.....	55	917	420	99	321	...	...	489	8	489	...	870	4	16	46	14,354	
Pennsylvania.....	48	254	150	106	44	...	...	88	16	93	5	112	630	...	...	33	16,653
Rhode Island.....	9	617	440	365	...	75	...	155	22	190	35	20	1,614	...	11	144	...
All other states....	150	775	304	170	132	2	...	466	5	456	20	96	902	3	86	306	10,763

FURNITURE AND REFRIGERATORS.

United States...	2,616	221,451	197,715	184,425	5,830	6,848	612	20,420	3,316	43,252	22,832	54,427	728,841	17,009	38,304	7,540	181,463	
Arkansas.....	18	1,985	1,940	1,915	25	...	...	45	...	49	4	350	3,580	3	2	34,513	
California.....	100	2,333	355	148	207	...	...	1,956	22	1,956	...	12	2	526	80	1,990	
Georgia.....	37	2,610	2,318	2,293	25	...	...	292	...	309	17	609	5,579	145	1,433	29	
Illinois.....	225	20,875	18,741	18,281	260	200	...	1,614	520	5,882	4,268	443	106,511	466	50	448	5,555	
Indiana.....	187	20,449	18,877	18,582	120	175	...	1,572	...	2,052	1,380	714	103,666	576	185	332	1,638	
Iowa.....	39	2,453	2,313	2,246	67	...	...	140	...	140	...	4	13,888	...	167	88	53
Kentucky.....	27	2,936	2,868	2,865	3	...	...	68	...	122	54	...	9,936	...	890	10	68
Maryland.....	37	2,876	2,089	1,840	224	25	...	787	...	787	...	333	6,732	12	244	...	3,638	
Massachusetts.....	129	12,203	11,188	8,899	166	1,523	600	383	632	1,395	1,012	4,856	15,854	1,002	10,557	121	3,862	
Michigan.....	187	27,485	25,581	24,590	156	805	...	1,886	18	3,821	1,935	5,420	100,371	1,450	1,526	295	3,206	
Minnesota.....	45	2,782	2,518	2,423	85	...	...	254	10	785	531	308	10,065	17	2,441	215	25
Missouri.....	83	6,203	5,386	5,154	232	...	...	752	65	1,012	260	97	16,111	971	416	319	14,514
New Hampshire.....	26	2,695	2,570	1,835	35	700	...	125	...	148	23	8	2,082	...	425	25		
New Jersey.....	37	2,340	2,046	1,975	71	...	...	284	10	554	270	4,059	4,717	1,066	301	10	1,743
New York.....	487	28,200	23,507	19,880	1,365	2,250	12	3,372	1,381	7,171	3,799	22,462	73,829	5,300	2,395	233	31,404	
North Carolina.....	105	11,379	11,173	11,121	12	40	...	181	25	267	58	...	14,708	350	3,792	22	...	
Ohio.....	207	15,951	14,830	12,627	1,038	105	...	1,027	94	4,243	3,216	41	68,481	489	700	193	33,434	
Oregon.....	18	1,501	853	822	8	23	...	648	...	648	40	40	...	525	...	823	1,720	1,092
Pennsylvania.....	231	17,211	15,594	14,582	972	40	...	1,210	407	3,737	2,527	13,168	66,582	1,295	244	101	23,952	
Tennessee.....	41	8,758	8,380	8,330	...	50	...	323	55	416	93	...	15,757	4	255	12	...	
Texas.....	20	1,879	940	935	5	...	...	939	...	944	5	...	2,190	...	886	2	5,000
Vermont.....	19	2,767	2,537	2,170	18	349	...	180	50	345	165	5	2,780	...	30	49	...	
Virginia.....	33	2,326	1,976	1,976	...	...	...	350	...	359	9	...	3,240	...	1,043	...	100
Washington.....	33	1,284	828	828	...	...	...	456	...	501	45	...	80	...	1,546	...	15
West Virginia.....	19	1,469	1,469	1,279	177	13	...	105	105	105	...	5,293	...	6	7,207	...	...
Wisconsin.....	106	18,667	18,299	17,904	185	210	...	358	10	3,335	2,977	1,251	65,187	3,237	7,456	937	2,905	
All other states....	120	4,774	3,539	2,915	254	340	...	1,218	17	1,229	11	247	11,610	145	644	87	5,293	

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

GAS AND ELECTRIC FIXTURES AND LAMPS AND REFLECTORS.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.		FUEL USED.						
		Total horsepower.	Owned by establishments reporting.				Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.	Anthracite (long tons).	Bituminous (short tons).						
United States...	518	15,862	8,718	6,930	1,544	244	...	5,896	1,248	8,788	2,892	14,857	94,000	3,115	344	3,056	114,463
California...	38	540	30	...	30	...	...	508	2	508	...	89	97	...	144	3,039	...
Connecticut...	12	1,946	1,863	1,850	18	...	...	8	75	935	927	1,703	9,033	860	206	363	2,239
Illinois...	55	1,883	1,307	1,015	50	242	...	493	83	1,030	537	429	8,018	162	...	439	4,980
Massachusetts...	24	478	10	10	...	...	...	416	52	416	...	69	740	...	...	446	971
New Jersey...	28	1,124	986	583	403	...	...	103	35	689	556	3,205	60,375	203	22	160	4,870
New York...	145	3,831	2,228	1,982	244	2	...	1,123	480	1,635	512	6,042	4,782	864	17	302	26,108
Ohio...	60	2,356	743	400	343	...	...	1,508	105	1,548	40	36	3,602	349	...	176	18,933
Pennsylvania...	69	1,249	547	385	162	...	...	339	363	454	145	2,274	665	249	4	684	25,164
Wisconsin...	12	353	160	160	...	...	...	193	...	263	70	25	1,680	235	...	...	4,741
All other states...	95	2,102	844	545	299	...	...	1,205	53	1,280	75	84	5,016	96	35	342	23,420

GAS, ILLUMINATING AND HEATING.

United States...	973	128,350	125,456	115,332	7,126	2,814	182	2,723	171	17,336	14,613	898,984	4,668,096	759,245	3,722	11,816,282	605,408
California...	61	7,502	7,084	6,542	539	3	...	418	...	6,537	6,119	300	...	9	2,205,981	600	
Connecticut...	22	4,100	3,995	3,383	12	600	...	105	...	1,064	959	33,925	89,977	7	192,670	1,419	
Illinois...	64	18,385	18,116	17,359	757	...	...	257	12	330	73	5,551	437,127	253,479	1,520,483	200	
Indiana...	41	5,845	5,815	5,767	44	...	...	5	25	252	247	2,478	180,994	26,750	140,915	13,645	
Iowa...	97	2,043	2,028	1,453	530	42	1	17	...	84	67	216	94,175	24,234	...	138,484	2
Massachusetts...	42	7,371	7,075	7,051	9	15	...	247	49	1,193	946	109,399	290,835	58,940	3	484,513	...
Michigan...	45	6,065	6,018	5,506	512	...	...	37	...	56	19	2,423	426,703	3,192	...	111,857	...
Minnesota...	33	3,538	3,530	1,117	904	1,509	...	8	...	314	306	44	97,088	1,266	200	190,502	5,188
Missouri...	15	3,635	3,595	2,917	678	...	...	40	...	40	...	3,147	220,558	3,508	...	233,744	60
New Jersey...	40	6,717	6,684	6,364	250	60	...	23	...	51	23	72,990	179,915	3,428	4	628,250	...
New York...	91	30,089	29,407	28,748	99	618	2	588	34	4,567	3,979	485,000	832,970	119,602	120	3,400,773	...
Ohio...	28	2,165	2,155	2,113	42	...	...	10	...	10	...	1,290	311,070	4,313	6	54,127	223,175
Pennsylvania...	76	9,374	9,238	8,365	871	2	...	136	...	469	333	99,297	348,241	79,675	4	948,620	44,268
Texas...	23	1,090	1,077	1,067	10	...	...	2	11	27	25	7,930	31,985	6,322	6	99,624	241,102
Wisconsin...	44	3,278	3,125	1,659	1,441	25	...	153	...	681	823	496	189,477	26,963	64	36,856	17,190
All other states...	251	17,103	16,446	15,921	430	95	...	677	40	1,361	684	73,893	936,681	140,822	8,299	1,348,870	58,559

GLASS.

United States...	353	123,132	119,707	88,971	20,731	5	...	3,425	...	43,589	40,164	17,906	1,859,001	17,393	12,488	468,894	43,711,519	
California...	3	592	295	295	...	...	...	297	...	297	...	1,619	1,186	4,713	10	72,808	870
Illinois...	11	6,638	6,205	6,155	50	...	...	433	...	4,645	4,301	443	457,900	473	175	33,693	75,000
Indiana...	44	21,031	20,637	17,951	2,736	...	...	344	...	140	85	230	60	640	175	66,957	146,089
Kansas...	23	1,031	976	603	373	...	...	55	...	9,995	9,449	21,388	60	331	5,642	1,020	2,289,789
Maryland...	7	427	257	235	22	...	...	50	...	11,833	11,783	169,028	30	100	27,000	...	17,630
Missouri...	4	8,820	8,770	8,770	...	...	...	21	...	372	351	5,583	104,230	2,381	8,491	138,011	1,998
New Jersey...	22	3,081	3,060	3,046	14	...	...	170	...	505	335	4,363	65,340	1,204	625	63,760	93,889
New York...	24	1,774	1,604	1,184	420	...	...	546	...	9,995	9,449	89	210,815	1,397	5	4,493	12,728,097
Ohio...	44	16,198	15,652	11,732	3,870	...	...	898	...	12,804	11,906	6,788	453,613	4,003	2,079	34,966	22,605,773
Pennsylvania...	111	55,182	54,284	43,393	10,886	5	...	75	...	85	10	17,653	1,653	1	2	1,047	...	
Virginia...	5	245	170	170	276	...	719	443	345	3,483	81,725	670	30	5,734,514	...
West Virginia...	44	5,233	4,957	2,602	2,355	5	...	90	...	255	...	2,663	670	19,462	17,830	15	1,288	
All other states...	11	2,880	2,780	2,785	5	...	...	...	...	...	...	...	...	...	...	...	...

GLOVES AND MITTENS, LEATHER.

United States...	266	2,689	2,016	1,625	141	250	...	850	23	1,000	150	1,756	11,346	19	602	166	19,491
California...	20	58	...	...	...	...	...	58	...	58	...	147	57	4,537	2	607	...
Illinois...	25	657	505	504	1	...	...	147	5	147	...	370	1,332	3,474	127	112	8,983
New York...	146	1,003	629	548	48	33	...	370	4	370	...	249	125	241	6	1	16,350
Wisconsin...	22	301	177	135	42	...	...	124	...	124	...	176	76	1,993	4	469	1,288
All other states...	54	870	705	438	50	217	...	151	14	151	25	355	182	87	78	1	4,627

HATS, FUR-FELT.

United States...	208	18,245	16,845	16,653	147	20	25	2,172	228	6,186	4,014	62,704	103,370	117	31	257	43,772
Connecticut...	68	5,619	4,889	4,464	100	...	...	25	...	1,333	345	1,499	33,162	39	6	169	8,478
Massachusetts...	9	1,149	1,125	1,125	...	...	...	24	...	274	250	30	33,773	...	...	1	1,168
New Jersey...	43	5,046	4,800	4,582	15	12	...	392	45	956	544	29,097	8,902	15	1	16,350	...
New York...	30	1,451	1,114	1,110	4	...	...	252	85	314	62	4,465	7,790	9	1	5,525	...
Pennsylvania...	31	5,335	4,951	4,925	18	8	...	343	41	2,924	2,551	27,526	13,603	49	2	8,624	...
All other states...	27	645	457	447	10	...	...	173	15	355	182	87	6,135	78	1	2	4,627

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

HOSIERY AND KNIT GOODS.

Table 9—Contd.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.						ELECTRIC HORSEPOWER.		FUEL USED.							
		Total horse-power.	Owned by establishments reporting.				Rented.		Total, rented, and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.		Anthracite (long tons).	Bituminous (short tons).					
United States...	1,255	103,703	88,033	74,560	1,235	12,038	200	13,286	2,390	25,485	12,199	124,420	441,187	1,080	6,845	2,182	33,861
Alabama...	6	750	750	750	35	800	30	55	55	55	444	414	110	14,414	27	88	1,515
Connecticut...	19	3,540	3,510	2,675	35	800	30	925	1,042	117	232	23,537	26	895	277	615	
Georgia...	22	2,948	2,023	2,023	66	100	30	504	228	6,302	19,225	7,704	15	16	18	24	
Illinois...	37	3,452	3,146	2,980	66	303	30	405	375	1,402	1,042	3,212	35,196	785	22	1,040	
Indiana...	5	1,393	1,363	1,060	303	30	30	1,240	55	1,401	562	69	13,203	90	120	625	
Maryland...	7	460	392	392	90	160	68	188	120	3,539	39	10	11,845	401	87	24	
Massachusetts...	58	9,113	7,989	7,739	90	160	839	285	1,226	1,226	605	36,435	265	15	220	18,373	
Michigan...	33	3,291	2,348	2,034	39	275	943	1,042	1,042	1,042	1,042	6,302	24,596	4,065	5,849	5,849	
Minnesota...	10	853	824	815	9	29	29	39	37	1,042	1,042	1,042	11,522	4	4	4	
New Hampshire...	19	2,315	2,155	645	4	1,506	65	104	39	1,042	1,042	1,042	6,232	1,148	440	440	
New Jersey...	32	1,477	1,357	1,160	47	150	85	352	267	1,898	1,898	1,898	8,757	15	42	1,117	
New York...	307	35,882	31,241	22,968	316	7,757	200	4,377	264	7,931	8,554	36,435	139,576	265	15	220	
North Carolina...	62	4,024	3,397	3,185	62	150	621	1,226	1,226	1,042	1,042	1,042	11,522	4	4	4	
Ohio...	37	1,613	1,302	1,107	193	306	5	616	310	1,042	1,042	1,042	6,232	1,148	440	440	
Pennsylvania...	450	21,797	16,818	16,154	164	500	3,407	1,572	7,074	3,667	72,667	49,824	41	433	3,521		
Rhode Island...	17	1,026	1,470	1,435	35	126	30	376	250	6,666	6,666	6,666	6,666	1,487	220	220	
South Carolina...	7	597	485	485	112	112	112	112	112	1,042	1,042	1,042	3,087	1,148	440	440	
Tennessee...	22	2,758	2,588	2,588	144	26	144	142	116	1,042	1,042	1,042	22,317	1,148	440	440	
Vermont...	4	962	802	500	302	160	160	160	160	1,446	1,446	1,446	3,413	7	17	17	
Virginia...	11	1,079	1,000	1,000	69	10	81	81	12	6,102	6,102	6,102	3,26	1,148	440	440	
Wisconsin...	48	2,312	1,933	1,740	193	372	7	825	1,321	14,879	14,879	14,879	36	262	362	362	
All other states...	42	1,467	1,140	1,125	15	302	25	1,064	77	9,946	9,946	9,946	105	1,148	440	440	

ICE, MANUFACTURED.

United States...	1,990	317,789	310,211	304,572	3,264	2,282	113	5,414	2,184	14,253	8,839	244,396	2,430,454	6,872	183,984	905,952	4,348,929
California...	76	9,971	8,923	8,621	110	192	818	220	1,417	599	1,786	198,077	797	380,724	20	14,603	
Illinois...	83	13,288	13,208	13,008	200	55	55	664	609	1,226	1,226	1,226	500	5	10,119		
Indiana...	80	7,726	7,570	7,477	18	75	56	100	261	205	1,630	127,317	125	15,208	1,366,227		
Kansas...	85	14,636	14,410	14,298	112	81	145	434	338	4,721	57,443	125	125	125	125	125	
Louisiana...	60	10,556	10,343	9,990	347	6	148	65	388	240	8,850	72,509	7,203	52,960	265,928		
Missouri...	92	22,904	22,450	22,446	4	170	98	356	1,382	1,254	1,254	224,395	1,487	60,373	280,374		
New York...	89	21,375	20,339	19,949	220	1,036	1,036	1,036	1,036	1,597	1,597	126,322	102,384	542	364		
Ohio...	97	19,098	18,986	18,701	285	72	72	535	433	186,012	186,012	186,012	5,246	95	307,032		
Pennsylvania...	170	35,890	35,544	35,217	152	175	250	96	1,250	1,000	39,995	300,192	850	129	62	505,782	
Tennessee...	56	9,327	9,251	9,241	10	76	76	263	263	93,165	93,165	93,165	191,604	19,112	310,032	78,305	
Texas...	180	29,905	29,807	28,631	1,034	142	98	1,021	1,021	6,781	6,781	6,781	19,112	154,035	85,793	1,520,195	
All other states...	913	123,153	119,380	116,993	772	1,577	38	2,026	1,147	5,032	2,406	54,301	871,256	1,501	154,035	85,793	

IRON AND STEEL, BLAST FURNACES.

United States...	203	1,173,422	1,158,572	1,033,033	125,230	309	14,850	135,143	120,293	273,543	1,166,135	31,649,865	179,012	19,446	949,622
Alabama...	19	106,189	105,064	106,040	24	125	5,423	7,061	6,956	142,649	2,907,745	91	1,487	6,000	
Illinois...	6	70,453	70,053	63,053	7,000	400	5,423	5,023	5,023	37,389	2,894,901	950	4,360	4,360	
Michigan...	11	17,403	17,403	17,403	103	1,714	1,714	1,714	1,714	9,167	123,174	172,224	172,224	172,224	
New Jersey...	4	12,025	12,025	12,025	100	350	350	350	350	1,021	1,021	1,021	1,021	1,021	1,021
New York...	9	95,416	86,477	52,157	34,320	8,939	12,479	3,540	1,317	74,586	2,158,893	946	946	946	
Ohio...	40	215,738	213,629	194,899	18,800	2,040	25,012	22,972	22,972	277,951	6,183,233	521	271	271	
Pennsylvania...	66	476,630	474,292	49,032	25,100	160	2,388	68,185	65,797	267,478	445,716	13,248,651	2,906	14	940,558
Tennessee...	13	18,150	18,150	18,150	310	310	310	310	310	30,298	565,386	152	201	201	
Virginia...	14	17,320	17,320	17,320	330	330	330	330	330	29,341	628,163	140,432	140,432	140,432	
Wisconsin...	5	12,975	12,715	12,715	260	850	850	850	850	110	8,902	328,786	125	14,600	129
All other states...	21	131,072	130,374	90,223	40,010	125	698	13,409	12,711	975	93,111	2,194,332	267	267	2,863

IRON AND STEEL, STEEL WORKS AND ROLLING MILLS.

United States...	446	2,100,978	2,042,066	1,955,346	79,391	5,829	1,500	58,797	115	716,609	657,812	765,145	19,759,678	648,637	55,809	2,063,736	261,601,204
California...	5	3,945	3,007	3,007	5	5	5	938	1,341	1,341	1,341	3,336	3,402	68	123,604	3,860	
Connecticut...	5	14,860	14,855	14,855	4,912	4,912	4,912	5	1,743	40,057	62,511	2,020	200	200	78,712	3,860	
Delaware...	24	152,470	150,260	138,260	12,600	2,210	55	83,352	83,142	10,311	3,088,782	86,143	4,704	260,003	450		
Illinois...	17	111,806	111,806	60,631	51,175	1,258	1,258	938	99,639	99,639	99,639	5	1,028,754	14,053	300	351,932	502,360
Indiana...	7	29,640	29,640	29,640	735	15	15	1,258	1,258	8,148	8,148	8,148	137,438	16,032	384	1,876,647	
Kentucky...	9	24,500	24,485	23,050	810	825	825	825	1,258	31,671	252,611	8,964	877	32,056	3,347		
Massachusetts...	8	4,230	4,065	4,065	4,065	225	225	225	1,503	1,278	34,014	155,932	2,2				

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

IRON AND STEEL, BOLTS, NUTS, WASHERS, AND RIVETS, NOT MADE IN STEEL WORKS OR ROLLING MILLS.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.						ELECTRIC HORSEPOWER.		FUEL USED.							
		Total horsepower.	Owned by establishments reporting.				Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.		Anthracite (long tons).	Bituminous (short tons).						
United States...	107	22,113	17,868	14,838	2,066	954	—	4,179	76	8,625	4,446	23,531	106,819	79,161	261	68,786	463,695
Connecticut...	12	1,712	1,700	800	320	590	—	12	—	37	25	1,319	4,278	6	3	2,396	2,236
Illinois...	11	1,513	955	895	—	60	—	554	4	609	55	—	9,014	619	12	3,840	81
Massachusetts...	10	2,233	2,201	1,936	15	200	—	—	—	32	1,027	645	8,447	—	220	376	457
Michigan...	4	812	805	805	—	—	—	—	—	8	—	—	7,998	22	—	5,164	318
New York...	10	3,153	1,848	1,730	4	114	—	1,305	—	1,505	200	6,880	14,335	125	25	4,474	206
Ohio...	17	4,782	4,604	3,620	934	—	—	178	—	2,073	1,895	232	34,501	76,826	—	28,288	116,402
Pennsylvania...	22	5,295	3,613	2,945	668	—	—	1,677	5	2,804	1,127	12,324	15,445	837	1	11,153	343,884
Rhode Island...	5	1,055	1,005	950	75	—	—	—	—	50	27	1,825	4,427	—	732	100	11
All other states...	16	1,557	1,127	—	—	—	—	395	35	435	90	256	10,374	727	—	12,383	11

JEWELRY.

United States...	1,201	11,204	3,642	2,744	694	200	4	5,179	2,383	5,759	580	4,671	15,550	809	59	1,093	132,002
California...	42	324	2	—	2	—	—	322	—	322	—	—	1	—	—	11	8,038
Illinois...	58	367	110	—	5	50	—	257	—	257	—	—	713	—	—	17	2,967
Massachusetts...	169	4,018	1,641	1,348	165	124	4	1,022	1,285	1,352	260	—	510	9,012	555	7	18,997
New Jersey...	90	1,231	827	513	299	15	—	180	224	476	296	2,879	639	31	8	365	13,726
New York...	328	1,596	246	87	159	—	—	1,170	180	1,170	—	—	288	250	31	1	26,308
Rhode Island...	252	2,425	577	574	2	1	—	1,138	660	1,200	12	711	3,452	175	35	20	43,539
All other states...	262	1,243	239	167	62	10	—	970	34	982	12	233	1,483	17	8	5	21,377

LEATHER GOODS.

United States...	1,273	28,148	12,782	10,028	1,881	1,373	—	14,946	420	16,663	1,717	8,756	67,933	493	3,038	3,637	80,217
California...	44	321	60	60	—	—	—	261	—	261	—	1	29	25	13	1	860
Georgia...	30	635	308	183	93	32	—	377	—	413	36	—	747	5	203	132	526
Illinois...	118	2,200	1,622	1,503	114	—	—	521	57	833	317	217	14,936	121	—	176	2,741
Indiana...	54	3,542	1,029	909	120	—	—	2,513	—	2,600	87	24	9,990	29	44	106	977
Iowa...	36	380	118	80	38	—	—	262	—	267	5	34	1,350	—	10	85	368
Kentucky...	26	499	186	171	15	—	—	313	—	313	—	—	1,661	63	—	6	664
Massachusetts...	84	634	217	177	40	—	—	300	117	310	10	461	1,077	14	3	61	1,737
Michigan...	40	760	235	190	10	35	—	473	52	595	122	234	701	55	70	28	264
Minnesota...	27	418	130	115	15	—	—	238	—	333	45	51	1,018	28	3	501	—
Missouri...	60	5,936	607	583	22	—	—	5,379	—	5,434	55	99	5,484	8	33	54	11,811
New Jersey...	46	990	342	769	73	—	—	120	28	310	190	3,186	627	2	15	3,157	—
New York...	206	1,836	667	449	205	13	—	1,021	148	1,103	82	2,442	3,201	1	39	2,391	22,486
Ohio...	69	1,399	1,049	772	277	—	—	344	6	543	204	16	5,631	12	21	4	15,594
Pennsylvania...	75	1,107	903	708	195	—	—	202	2	243	41	1,161	5,914	4	4	7,657	—
Tennessee...	33	344	80	42	38	—	—	264	—	267	3	35	535	—	207	400	—
Texas...	32	601	66	53	13	—	—	535	—	535	—	—	264	—	62	62	6
Virginia...	18	958	899	890	9	—	—	59	—	222	163	93	2,118	—	—	46	166
Wisconsin...	36	1,442	1,204	1,184	20	—	—	228	10	555	327	148	5,461	20	534	54	3,515
All other states...	239	4,046	2,580	1,183	84	1,293	—	1,436	—	1,516	30	554	7,191	112	1,997	185	6,787

LEATHER, TANNED, CURRIED, AND FINISHED.

United States...	829	148,140	140,238	131,311	7,231	1,556	140	6,487	1,415	35,919	29,432	98,724	1,028,215	806	20,143	48,129	598,532
California...	40	3,534	2,802	2,705	97	—	—	732	—	1,932	1,200	232	2,297	—	717	45,322	66
Delaware...	16	4,417	4,315	4,315	—	—	—	102	—	424	322	—	26,661	—	—	—	—
Illinois...	28	6,769	6,322	—	—	—	—	367	80	915	548	2,702	56,105	—	—	94,898	472
Kentucky...	17	2,669	2,051	2,566	85	—	—	18	—	148	130	—	22,177	—	—	—	—
Massachusetts...	122	19,231	17,770	17,601	75	100	—	844	611	4,365	3,521	17,226	114,138	236	261	304	—
Michigan...	24	6,719	5,877	5,873	4	—	—	842	—	2,085	1,243	—	1,500	66,554	52	1	698
New Jersey...	79	9,243	8,306	8,184	22	100	—	847	90	2,203	1,356	—	14,569	77,345	192	5	125
New York...	101	14,265	12,709	10,985	1,294	415	15	1,286	270	2,817	1,531	25,327	78,802	30	59	248	19,430
North Carolina...	21	2,672	2,334	2,108	4	99	125	337	1	771	434	—	14,472	—	1,110	27	34
Ohio...	34	4,244	4,100	—	—	—	—	134	10	2,086	1,952	—	46,518	133	—	11	—
Pennsylvania...	153	37,440	37,259	32,079	5,134	46	—	91	90	5,406	5,315	26,099	270,191	187	6,733	26	393,031
Virginia...	27	4,223	4,123	4,003	14	106	—	—	100	443	443	4,723	15,069	—	30	1	89,010
West Virginia...	19	5,305	4,914	391	—	—	—	—	—	664	664	—	41,357	—	2,156	3	845
Wisconsin...	32	17,112	17,066	17,016	50	—	—	46	—	9,478	9,432	2,745	136,489	10	695	—	—
All other states...	116	10,297	9,293	8,542	61	690	—	841	163	2,182	1,341	52,042	18	8,325	61	—	49

LIME.

United States...	358	27,671	26,130	24,271	1,418	441	—	1,497	44	2,560	1,063	106,929	674,304	71,471	517,915	33,147	1,424,724
Illinois...	10	794	758	708	50	—	—	35	1	110	75	—	22,080	—	8,303	2	—
Maine...	5	205	155	155	—	—	—	—	50	—	50	—</					

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

LIQUORS, MALT.

Table 9—Contd.

STATE.	Number of establish- ments re- porting.	Total horse- power.	PRIMARY HORSEPOWER.						ELECTRIC HORSEPOWER.		FUEL USED.						
			Owned by establishments reporting.				Rented.		Total, rented and generated in the estab- lish- ment report- ing.	Generated in the estab- lish- ment report- ing.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas en- gines.	Water wheels and motors.	Other.	Electric.			Anthra- cite (long tons).	Bitumi- nous (short tons.)					
United States...	1,368	347,726	333,371	330,705	1,261	340	1,065	14,190	165	66,519	52,329	554,029	2,424,798	11,530	69,637	527,089	3,649,380
California...	72	8,867	6,764	6,725	7	32	—	2,103	—	2,553	450	50	430	204	2,121	179,276	330
Illinois...	105	27,900	27,531	27,531	—	—	—	—	—	4,811	4,442	2,551	343,470	300	81	1,555	—
Indiana...	37	11,882	11,707	11,057	—	—	—	50	175	1,736	1,611	148,147	—	4	34	—	8
Kentucky...	19	6,057	5,747	5,747	—	—	—	260	50	1,513	1,453	359	70,471	—	—	8,873	85
Louisiana...	9	2,207	1,847	1,847	—	—	—	—	—	857	437	—	27,933	—	—	—	—
Maryland...	18	6,187	6,169	6,162	7	—	—	18	—	246	228	—	46,122	—	25	7	717
Massachusetts...	31	9,917	9,810	9,768	—	5	11	42	72	365	593	11,750	63,729	752	200	13	154
Michigan...	77	9,219	8,679	8,663	5	—	—	—	—	831	193	78,899	650	9,768	37	310	—
Minnesota...	64	6,912	6,450	6,428	22	—	—	462	—	1,063	601	1,731	51,341	10	11,571	145	412
Missouri...	30	20,436	20,414	20,328	20	60	—	22	—	7,974	7,952	188	238,098	4,944	633	84,273	150,634
New Jersey...	31	14,082	12,990	12,978	12	—	—	1,092	—	2,930	1,858	97,275	19,051	—	10	253	276
New York...	131	49,729	47,121	46,214	39	155	713	2,563	45	10,582	8,019	227,666	229,195	614	35	92	73,001
Ohio...	103	31,690	31,564	31,496	63	15	—	126	—	4,605	4,379	1,070	320,569	1,202	—	310	693,380
Pennsylvania...	235	54,369	53,333	52,646	707	—	—	922	85	8,580	7,667	194,562	250,475	576	5	114	1,345,457
Texas...	11	7,817	7,762	7,762	—	—	—	55	—	1,304	1,249	—	8,608	—	60	132,352	—
Washington...	29	5,675	4,094	3,793	250	51	—	1,581	—	3,003	1,422	3,471	24,159	270	13,549	28,679	—
Wisconsin...	134	23,248	21,861	21,753	108	—	—	1,387	—	7,235	5,548	7,615	177,578	238	12,934	176	1,844
All other states...	182	41,541	39,248	39,217	21	10	—	2,293	—	6,052	3,759	5,513	320,182	1,766	18,662	42,398	1,381,197

LOCOMOTIVES, NOT MADE BY RAILROAD COMPANIES.

United States...	16	35,102	33,551	28,831	4,520	200	—	1,551	—	40,604	38,953	11,047	231,520	24,820	3,039	65,649	164,275
------------------	----	--------	--------	--------	-------	-----	---	-------	---	--------	--------	--------	---------	--------	-------	--------	---------

LUMBER AND TIMBER PRODUCTS.

United States...	39,423	2,840,082	2,767,454	2,587,487	38,628	140,503	826	62,200	10,428	130,707	68,507	79,330	1,134,218	5,854	162,644	144,499	521,034	
Alabama...	1,768	102,527	102,157	98,539	3,458	2,160	—	370	—	899	519	10	16,816	—	7,972	470	—	
Arizona...	23	2,653	2,452	2,442	—	10	—	301	200	303	2	127	—	—	4,068	—	5,098	
Arkansas...	1,667	122,347	121,990	121,603	282	112	2	388	—	2,048	1,660	150	24,409	—	3,155	712	23,607	
California...	638	94,914	85,785	82,670	848	2,229	—	8,654	475	13,867	5,213	28	339	—	13,285	46,216	858	
Colorado...	255	11,177	10,902	10,120	117	265	—	675	—	675	—	10,104	60	200	166	—	—	
Connecticut...	365	15,153	13,928	11,250	354	2,324	—	902	323	997	95	558	5,647	50	311	414	1,642	
Delaware...	115	3,767	3,715	3,691	24	—	—	52	—	59	7	2	234	—	20	154	—	
Florida...	510	65,097	64,819	64,398	115	130	175	238	40	2,550	2,312	701	—	1,657	2,085	712	120	
Georgia...	1,793	83,464	82,382	80,492	459	1,431	—	1,004	78	2,505	1,501	122	9,551	60	3,869	45	—	
Idaho...	235	32,342	31,659	30,670	20	969	—	663	20	2,781	2,118	680	—	—	—	—	—	
Illinois...	757	52,015	46,846	45,680	889	275	2	4,787	382	8,282	3,495	1,272	62,128	62	1,355	1,544	19,509	
Indiana...	1,230	57,243	54,530	52,975	1,239	296	—	2,628	85	3,542	914	5	65,193	120	667	1,183	14,612	
Iowa...	213	16,584	15,939	15,529	209	210	—	625	—	999	265	180	14,797	42	4	290	2	
Kansas...	72	2,947	2,376	1,792	584	12	—	571	—	935	364	98	3,909	7	103	21,575	8,260	
Kentucky...	1,544	59,653	53,372	57,183	773	411	—	1,241	40	3,377	2,136	—	51,589	1,582	1,080	713	—	
Louisiana...	665	150,286	149,512	149,099	433	65	—	774	—	8,805	8,031	68	68,000	80	22,781	24,129	550	
Maine...	1,048	95,363	92,493	92,323	57,304	1,074	50	2,465	400	3,215	550	471	1,401	—	1,964	115	—	
Maryland...	549	23,593	21,005	22,537	358	110	—	495	53	750	285	—	11,603	4	144	1,512	2,735	
Massachusetts...	679	44,734	41,450	32,917	1,128	7,404	—	1,177	2,157	1,985	788	1,650	19,626	620	2,335	5,438	—	
Michigan...	1,108	133,739	130,312	125,368	1,169	3,775	—	2,722	705	5,171	2,449	1,251	70,242	20	7,656	1,799	1,777	
Minnesota...	501	67,829	66,682	65,994	396	267	25	1,057	100	1,433	426	466	22,359	—	2,221	664	36	
Mississippi...	1,624	149,715	149,301	148,923	258	230	—	359	55	2,904	1,700	51,135	100	10,582	1,009	—	4,874	
Missouri...	1,072	49,506	47,343	46,578	671	96	—	1,942	221	2,614	572	294	34,871	—	172	1,189	6	
Montana...	146	14,337	14,068	13,894	12	252	—	268	—	375	106	—	1,817	—	300	384	—	
Nebraska...	47	1,343	964	826	138	—	—	379	—	—	—	—	2,124	—	—	—	—	
New Hampshire...	573	44,593	43,513	30,608	211	12,604	—	310	770	772	462	13	353	600	159	230	—	
New Jersey...	331	15,760	14,617	12,716	933	938	—	1,000	143	1,807	807	10,770	6,127	432	694	8,655	—	
New Mexico...	76	4,585	4,403	4,462	22	39	—	182	—	2,435	49	182	—	6,697	5	49	—	—
New York...	2,179	131,462	124,123	93,422	4,448	36,217	36	5,780	1,559	9,219	3,429	26,329	82,258	1,526	5,511	2,008	41,268	
North Carolina...	2,503	115,542	115,086	102,266	97,194	6,399	4,212	543	30	2,842	2,416	2,696	24,247	762	9,916	1,091	—	
Ohio...	1,358	69,255	65,249	50,570	5,313	366	—	2,543	1,463	4,716	2,173	721	80,623	225	1,227	488	102,075	
Oklahoma...	335	12,397	11,765	11,315	418	49	—	632	—	1,345	842	210	7,616	—	101	151	10,589	
Oregon...	635	95,213	92,774	88,446	77	4,215	—	2,435	—	5,693	3,253	13	1,180	—	4,474	11,160	506	
Pennsylvania...	2,598	113,412	108,266	97,194	4,244	17,567	6	526	50	573	53	510	99,070	99	1,310	1,766	112,383	
Rhode Island...	55	2,828	2,456	2,156	115	182	—	160	212	1,341	24	75	33,096	140	15	84	815	
South Carolina...	851	49,400	49,146	47,582	90	1,471	—	254	—	3,181	2,927	—	7,287	50				

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

MARBLE AND STONE WORK.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.		FUEL USED.						
		Owned by establishments reporting.					Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
		Total horse-power.	Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.		Anthracite (long tons).	Bituminous (short tons).					
United States...	2,875	187,686	152,969	132,236	10,874	9,618	241	32,062	2,655	53,748	21,686	49,962	682,447	1,149	8,313	20,238	133,436
California...	79	3,502	2,055	1,729	241	85	40	1,507	54	1,577	70	5,976	.....	10	7,964	7	
Connecticut...	40	2,317	1,952	1,749	103	40	.....	311	54	426	115	5,181	.....	14	156	1,754	
Georgia...	56	3,370	3,153	3,094	59	.....	.....	205	12	588	333	29,535	.....	70	224	.....
Illinois...	103	5,003	3,353	2,025	723	.....	.....	1,025	25	2,026	401	317	18,159	9	1,106	4,882	
Indiana...	121	17,143	16,202	16,055	237	.....	.....	835	16	4,014	3,179	19	120,921	135	29	280	6,114
Kentucky...	33	1,685	1,632	1,491	141	.....	.....	51	2	599	548	.....	7,090	.....	429	698	
Maine...	66	7,785	6,900	6,532	173	195	.....	885	.....	1,081	196	150	17,743	.....	235	208	8
Maryland...	36	4,241	3,649	3,029	14	.....	6	582	10	942	360	1,814	19,718	1	12	65	
Massachusetts...	227	16,515	14,089	13,179	835	75	.....	1,274	1,152	2,560	1,286	1,836	43,997	115	13	1,388	4,843
Michigan...	86	1,570	1,108	887	216	.....	5	448	14	491	43	41	3,525	36	86	593	557
Minnesota...	88	5,422	3,019	2,768	251	.....	.....	2,403	.....	2,428	25	149	10,834	8	145	570	265
Missouri...	74	4,306	3,486	2,910	536	40	.....	813	7	1,047	234	11	37,239	.....	1,980	339	9,723
New Hampshire...	69	3,620	2,371	2,206	119	16	30	1,213	86	1,213	.....	82	11,684	1	66	249	320
New Jersey...	67	2,755	2,333	2,105	218	60	.....	373	.....	729	356	3,586	3,957	3	323	917	
New York...	313	18,110	12,888	11,108	1,492	238	.....	4,935	337	9,199	4,264	24,461	20,511	738	39	1,192	25,895
North Carolina...	19	1,863	1,563	1,555	8	.....	.....	150	150	280	130	11	5,021	.....	146	12	.....
Ohio...	139	7,070	6,819	5,008	1,720	1	.....	248	3	2,273	2,025	401	40,818	.....	684	32,872	
Pennsylvania...	382	29,037	26,878	24,863	1,902	53	60	1,778	381	2,647	869	15,465	105,316	39	26	1,388	28,355
Rhode Island...	26	1,754	1,611	1,504	41	.....	6	142	1	142	.....	101	4,806	7	110	.....
Tennessee...	33	2,781	2,590	2,452	188	.....	.....	191	.....	221	30	98	18,071	.....	175	35	
Texas...	49	1,016	608	418	190	.....	.....	408	.....	408	.....	1	4,138	.....	159	518	.....
Vermont...	283	29,107	21,467	13,822	202	7,339	104	7,214	426	12,949	5,735	879	82,166	11	1,213	376	820
Virginia...	32	4,553	4,465	3,500	10	925	30	88	.....	470	382	4	24,097	.....	1,600	9	
Wisconsin...	93	4,347	4,000	3,163	422	415	.....	847	.....	1,342	495	157	18,747	31	127	347	2,230
All other states...	201	8,253	4,638	3,734	818	136	.....	3,536	29	4,096	560	238	22,147	22	2,348	1,588	13,076

MATTRESSES AND SPRING BEDS.

United States...	647	17,689	9,223	6,204	2,639	378	.....	8,315	151	10,192	1,877	4,698	34,139	1,799	2,177	1,825	84,043
California...	33	727	50	.....	50	.....	.....	677	.....	677	.....	66	.....	.....	558	100	
Illinois...	46	849	502	432	70	.....	.....	847	.....	398	51	81	2,915	36	1	62	2,867
Indiana...	23	791	621	525	56	40	.....	170	.....	452	312	14	4,276	.....	172	.....
Massachusetts...	38	592	294	202	32	.....	.....	296	2	356	60	882	1,428	16	1	1,081	
New York...	82	1,581	1,094	703	341	50	.....	418	69	455	37	2,254	1,903	92	20	28	10,223
Ohio...	32	2,069	1,759	1,258	501	.....	.....	310	.....	1,094	784	9	7,905	30	6	4	22,132
Pennsylvania...	54	1,102	907	525	377	5	.....	190	5	522	332	1,538	837	.....	15	22,733	
Wisconsin...	18	917	702	640	62	.....	.....	215	75	5,802	110	21	2,574	15	393	1,400	
All other states...	321	9,061	3,294	1,861	1,150	283	.....	5,692	75	5,802	110	599	12,235	1,626	1,741	985	23,507

MILLINERY AND LACE GOODS.

United States...	1,025	7,918	3,547	2,669	561	117	.....	4,048	323	4,560	512	8,644	12,050	480	78	342	80,292
Illinois...	72	549	239	150	89	.....	.....	310	.....	431	121	104	2,951	65	2	31	5,159
Massachusetts...	68	391	56	12	17	27	.....	278	57	278	42	871	.....	31	12	248	1,591
Missouri...	24	94	18	18	.....	.....	.....	76	.....	474	207	.....	.....	.....	.....	2,506	
New Jersey...	126	1,380	866	707	114	45	.....	448	66	510	62	2,167	2,618	2	13	39	3,118
New York...	581	3,511	1,059	835	224	.....	.....	2,308	144	2,369	61	4,562	340	13	6	4	49,068
Ohio...	25	603	402	240	62	.....	.....	201	.....	348	147	2,180	.....	.....	.....	30	16,548
Pennsylvania...	63	841	555	547	8	.....	.....	248	40	246	.....	335	1,984	.....	57	30	4,670
All other states...	66	549	352	260	47	45	.....	181	16	302	121	900	899	400	57	230	3,583

MINERAL AND SODA WATERS.

United States...	3,561	19,392	13,633	8,668	4,580	375	10	5,504	255	6,218	714	17,532	45,841	666	4,367	6,946	112,284
Georgia...	131	363	240	35	205	10	.....	114	9	114	.....	9	701	58	93	549	190
Illinois...	227	1,620	1,009	835	104	10	.....	611	.....	748	137	108	5,763	31	12	248	1,146
Massachusetts...	121	657	403	340	44	9	10	247	7	303	56	518	2,430	11	96	81	1,700
New Jersey...	111	879	719	558	157	4	.....	160	.....	160	.....	2,566	444	.....	13	30	3,410
New York...	391	2,820	2,227	1,400	763	64	.....	550	43	773	223	8,928	3,240	227	238	209	17,303
Pennsylvania...	283	1,851	1,460	1,033	406	27	.....	385	.....	510	125	3,632	2,579	6	34	108	15,469
All other states...	2,292	11,202	7,569	4,467	2,841	261	.....	3,437	196	3,610	173	1,721	30,682	333	3,881	5,721	72,956

POWER USED.

365

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

MUSICAL INSTRUMENTS, PIANOS AND ORGANS AND MATERIALS.

STATE.	PRIMARY HORSEPOWER.								ELECTRIC HORSEPOWER.		FUEL USED.						
	Number of establishments reporting.	Total horsepower.	Owned by establishments reporting.				Rented.		Total, rented and generated by establishment.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.			Anthracite (long tons).	Bituminous (short tons).					
United States...	430	41,623	35,702	33,314	1,271	1,106	11	5,355	566	13,256	7,901	37,796	202,934	4,930	789	1,457	46,988
Connecticut.....	17	2,559	2,301	1,951	15	325	10	258	...	1,017	759	4,185	9,955	...	3	500	500
Illinois.....	64	8,123	7,508	7,378	79	50	1	592	23	2,576	1,984	2,400	83,988	...	6	403	448
Indiana.....	14	2,650	2,274	2,268	6	...	...	370	...	811	425	...	18,761	...	25	200	200
Maryland.....	4	613	610	385	225	...	...	3	...	438	438	1,613	2,011	...	60	620	620
Massachusetts.....	54	4,454	4,197	3,970	52	175	...	105	62	933	738	1,652	17,852	678	515	64	779
Michigan.....	16	2,090	2,670	2,640	...	30	...	2	18	369	367	88	19,414	50	...	6	98
New Jersey.....	15	1,121	948	940	...	8	...	152	21	642	490	3,110	5,125	566	10	241	241
New York.....	138	10,905	8,938	8,005	170	163	...	1,550	417	3,184	1,634	23,062	26,120	1,338	83	19	4,673
Ohio.....	30	2,254	1,366	870	496	...	...	888	...	1,189	301	7	6,061	2,284	73	33	32,776
Pennsylvania.....	24	1,260	958	819	139	...	...	302	...	588	286	1,560	3,767	...	1	4,421	4,421
Vermont.....	4	1,966	1,430	1,265	...	165	...	536	...	572	36	35	2,168	...	4	462	462
All other states....	50	3,028	2,502	2,223	89	190	...	501	25	937	436	78	7,712	14	34	46	2,631

OIL, COTTONSEED, AND CAKE.

United States...	803	192,342	185,478	183,440	1,674	175	189	6,394	470	10,855	4,461	8,583	828,357	800	156,447	376,789	372,880
Alabama.....	71	17,215	16,712	16,512	75	125	...	503	...	679	176	5	81,733	...	8,553	45	57,980
Arkansas.....	44	13,029	13,024	13,008	16	...	...	5	...	173	168	...	62,692	...	6,227	2,022	45
Georgia.....	142	29,510	27,983	27,289	694	...	...	1,527	...	1,866	369	4,591	121,576	...	65,401	...	68,274
Louisiana.....	42	12,142	11,834	11,222	452	...	...	150	...	288	...	523	643	676	2,411	75,081	68,274
Mississippi.....	87	24,534	24,246	24,207	...	29	...	288	...	892	604	720	147,191	...	859	...	...
North Carolina.....	53	9,611	8,466	8,403	3	...	...	1,175	...	1,414	239	...	40,785	...	17,642	6	...
Oklahoma.....	39	10,720	10,389	10,061	328	...	...	331	...	753	422	...	23,516	...	1,564	25,708	203,066
South Carolina.....	103	17,730	15,500	15,492	18	50	...	2,170	...	2,599	429	1,232	62,118	800	39,475	8	...
Tennessee.....	29	7,472	7,455	7,455	...	...	...	17	...	334	317	...	47,208	...	600	...	3,061
Texas.....	183	45,185	45,005	44,959	46	...	...	90	90	754	664	1,359	159,919	...	9,234	271,438	43,560
All other states....	19	5,164	4,784	4,772	12	...	...	380	...	868	460	...	50,260	...	4,561	1,770	...

PAINT AND VARNISH.

United States...	672	56,162	47,487	42,168	3,290	2,006	25	7,814	861	17,037	9,223	86,597	299,930	24,687	1,318	19,613	269,387
Illinois.....	66	7,108	6,524	6,221	298	...	5	574	10	3,196	2,622	378	55,018	3,988	178	2,736	8,729
Michigan.....	16	2,362	2,098	2,098	...	...	...	244	20	419	375	31	17,827	2,040	...	50	631
Missouri.....	28	2,706	2,335	2,331	4	...	...	371	...	90	2,414	310	...	30	49	3,061	
New Jersey.....	49	5,924	5,203	5,129	45	29	...	721	...	1,875	1,154	17,903	42,871	1,581	3	13	1,054
New York.....	126	10,857	8,882	8,133	259	475	15	1,412	563	3,200	1,788	37,408	22,408	4,518	11	331	8,634
Ohio.....	74	5,572	4,666	3,337	1,329	...	...	896	10	2,548	1,652	1	29,040	6,523	64	24	32,702
Pennsylvania.....	98	9,862	9,399	7,567	1,012	820	...	377	85	1,112	735	9,821	70,635	1,943	667	447	181,924
All other states....	215	11,771	8,380	7,350	343	682	5	3,219	172	4,687	807	1,053	40,717	3,759	365	15,963	32,632

PAPER AND WOOD PULP.

United States...	777	1,304,265	1,264,185	469,089	6,675	788,146	275	38,610	1,470	130,120	91,510	558,877	5,460,314	500	226,001	584,536	6,485,293
Connecticut.....	51	19,509	19,454	11,449	...	8,005	...	55	...	255	200	23,184	92,807	...	64	97	540
Delaware.....	6	4,318	4,318	3,677	...	641	...	...	...	...	...	60,334	...	...	...	...	700
Illinois.....	19	15,169	15,165	11,185	14	3,966	2	...	...	1,025	1,021	...	223,676	...	...	2,535	18,482
Indiana.....	27	18,382	17,085	14,930	1,050	1,105	...	1,297	...	2,695	1,398	2	285,274	...	...	...	...
Maine.....	45	223,787	215,985	48,271	30	167,684	...	7,572	230	22,395	14,823	15,202	590,101	...	41,099	...	...
Maryland.....	13	11,407	11,162	10,251	...	911	...	10	235	6,413	6,403	...	132,467	...	...	...	354,808
Massachusetts.....	88	115,792	113,133	59,727	285	53,121	...	2,004	655	6,241	4,237	69,131	465,347	...	4,769	19	47
Michigan.....	32	48,700	47,530	31,900	...	15,630	...	1,170	...	4,232	3,062	...	385,344	...	11,298	...	...
Minnesota.....	9	23,440	22,940	2,310	...	20,630	...	500	...	1,238	758	...	35,360	8,580	...	...	...
New Hampshire.....	34	79,912	74,747	19,603	...	55,144	...	5,165	...	13,963	8,793	8,133	186,189	73,847	42	...	...
New Jersey.....	37	22,996	22,816	19,338	500	2,978	...	180	...	1,036	856	167,046	79,431	...	52	...	...
New York.....	178	337,543	323,962	66,196	65	237,701	...	13,586	...	28,149	14,563	173,387	872,378	...	2,775	176	...
North Carolina.....	3	9,650	9,650	6,800	...	2,850	...	...	...	8,000	8,000	...	125,600	...	...	...	4,381,706
Ohio.....	47	51,492	50,398	42,815	2,600	3,708	275	1,004	...	9,776	8,772	...	492,136	...	...	...	...
Oregon.....	5	39,651	39,651	5,837	5	53,799	...	...	...	1,270	1,270	...	...	...	...	228,562	...
Pennsylvania.....	62	66,910	64,493	58,155	23	6,313	...	2,417	...	10,982	8,565	98,456	733,072	...	15,855	2,188	58,269
Vermont.....	23	33,191	38,161	3,376	...	34,785	...	30	...	232	202	4,136	51,642	...	4,711	...	...
Virginia.....	9	9,770	9,770	4,510	...	5,260	...	...	...	50	50	...	111,287	...	200	...	...
West Virginia.....	9	11,025	10,760	5,910	650	4,200	...	265	...	635	430	...	49,442	...	...	...	1,392,557
Wisconsin.....	57	136,903	125,683	30,214	1,429	104,010	...	870	350	5,603	4,733	...	432,234	...	37,678	4,756	...
All other states....	21	19,803	17,322	11,615	22	5,685	...	2,481	...	4,650	2,469	...	56,193	600	24,825	346,109	77,894

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

PAPER GOODS, NOT ELSEWHERE SPECIFIED.

STATE.	Number of establishments reporting.	PRIMARY HORSEPOWER.							ELECTRIC HORSEPOWER.		FUEL USED.						
		Total horsepower.	Owned by establishments reporting.					Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.	Other.			Anthracite (long tons).	Bituminous (short tons).				
United States...	351	27,067	21,162	19,246	576	1,340	.....	5,245	660	12,680	7,435	40,783	87,629	5,318	4	580	31,051
Connecticut	10	593	541	315	6	220	.....	37	15	49	12	1,807	908	.....	1	30	793
Illinois	39	869	180	180	.....	.....	.....	595	94	600	5	55	3,419	6	.....	.....	.....
Indiana	6	835	460	460	.....	.....	.....	375	.....	675	300	4,380	.....	.....	.....	.....	572
Massachusetts	54	6,776	6,176	6,123	53	.....	.....	350	241	3,026	2,667	1,656	26,312	5,264	3	16	572
Michigan	16	2,580	1,880	1,880	.....	.....	.....	697	3	1,032	335	1,347	9,176	.....	.....	.....	225
New Jersey	17	2,132	1,681	1,673	8	.....	.....	401	50	578	177	9,115	3,687	.....	3	25	25
New York	90	6,257	4,927	3,888	139	900	.....	1,119	211	2,945	1,826	21,534	2,508	40	1	65	5,576
Ohio	25	1,909	1,375	1,030	195	150	.....	530	4	1,561	1,031	5	15	15,427	.....	.....	6,886
Pennsylvania	28	1,348	1,129	1,100	29	.....	.....	188	31	667	479	4,175	1,378	479	6	1,785	1,785
All other states	66	3,768	2,813	2,597	146	70	.....	944	11	1,547	603	1,059	20,434	8	.....	489	15,159

PATENT MEDICINES AND COMPOUNDS AND DRUGGISTS' PREPARATIONS.

United States...	1,076	25,659	18,035	15,938	1,712	264	121	6,882	742	11,175	4,233	57,914	100,963	1,092	908	1,901	114,447
Illinois	120	3,234	2,567	2,349	98	.....	120	602	65	1,045	443	5,247	15,779	41	4	95	5,133
Indiana	33	809	641	591	49	.....	1	168	.....	605	337	18	3,932	12	16	129	242
Maryland	23	683	619	608	10	1	.....	64	.....	282	218	215	4,396	.....	1	1	949
Massachusetts	50	1,376	849	638	211	.....	.....	467	60	472	5	841	2,587	15	82	81	2,931
Michigan	46	2,270	2,022	2,000	22	.....	.....	248	.....	2,086	1,818	313	25,196	23	28	63	2,681
Missouri	49	908	427	356	71	.....	.....	481	.....	595	114	243	5,085	47	24	8	6,415
New Jersey	41	1,478	1,394	1,208	106	20	.....	84	.....	205	121	20,530	4,195	8	25	48	1,566
New York	248	5,423	3,149	2,766	327	56	.....	1,724	550	1,968	244	20,072	5,266	797	100	18	16,825
Ohio	66	1,568	1,011	877	129	5	.....	556	1	837	281	37	7,459	12	.....	22	18,716
Pennsylvania	95	2,619	2,258	1,897	358	3	.....	359	2	838	479	8,164	4,111	7	90	90	29,276
All other states	305	5,291	3,098	2,588	331	179	.....	2,129	64	2,362	233	2,234	20,957	130	526	1,346	29,713

PETROLEUM, REFINING.

United States...	130	80,268	89,955	83,707	5,870	.....	378	28	285	8,808	8,780	1,347,519	1,284,841	99,595	.....	3,473,758	7,519,859
California	25	5,030	5,542	5,422	120	.....	.....	13	75	799	786	.....	.....	1,286,666	.....	.....	6,568
New Jersey	6	23,902	23,902	23,677	225	.....	.....	.....	2,294	2,294	898,187	4,523	89,312	137,429	.....	44,710	167,478
New York	7	5,091	5,081	4,091	90	10	977	977	129,863	133,966	8,323	32,567	519,060	64,017	4,527,475
Pennsylvania	40	35,212	35,212	30,394	4,490	.....	328	.....	3,725	3,725	316,138	453,106	.....	1,133,516	774,913	2,298,648	40,000
Texas	7	6,208	6,193	6,158	35	.....	.....	15	.....	392	377	.....	.....	1,900	.....	.....	5,400
All other states	36	9,901	9,701	9,201	500	.....	.....	200	483	483	3,361	425,157	1,900	774,913	2,298,648	210	210

POTTERY, TERRA-COTTA, AND FIRE-CLAY PRODUCTS.

United States...	703	110,017	106,463	101,965	4,353	95	50	3,544	10	10,643	7,099	98,348	3,026,546	4,562	38,743	370,834	10,365,943
California	21	2,836	2,211	2,167	44	.....	.....	645	.....	945	300	138	.....	309	200,347	.....	.....
Georgia	8	1,540	1,540	1,540	.....	.....	.....	.....	.....	.....	.....	45,253	5,325	.....	.....	.....	.....
Illinois	29	7,995	7,345	7,290	15	.....	40	650	.....	770	120	189,448	903	36,031	.....	.....	40,000
Indiana	29	5,089	4,964	4,962	2	.....	.....	125	.....	297	172	1	205,376	55	.....	.....	6,248
Kentucky	15	3,554	3,429	3,417	12	.....	.....	125	.....	160	35	102,299	1,906	470	4	.....	8,540
Maryland	13	1,336	1,324	1,318	6	.....	.....	2	10	2	2	8	37,357	28	198	53	210
Missouri	26	7,848	7,715	7,657	58	.....	.....	133	.....	1,334	1,201	284,316	30	307	6,091	500	500
New Jersey	83	11,817	11,501	11,427	74	.....	.....	316	.....	2,476	2,160	80,755	291,857	1,142	1,238	703	126
New York	35	4,039	3,958	3,538	420	.....	.....	81	.....	602	521	6,580	74,069	586	501	30,230	30,503
Ohio	182	26,778	26,534	24,334	2,200	.....	.....	244	.....	2,049	1,805	1,286	781,527	.....	388	2,670	7,389,525
Pennsylvania	129	23,142	22,622	21,623	1,014	85	.....	520	.....	918	398	8,643	711,840	415	701	142	1,432,335
West Virginia	16	1,674	1,521	1,403	118	.....	.....	153	.....	937	387	1,045	284,531	455	28,348	1,279,930	1,279,930
All other states	117	12,849	11,799	11,389	390	10	10	550	.....	882	105	1,154	1,192	65	231	323	207,414

PRINTING AND PUBLISHING.

United States...	21,871	297,763	93,806	59,240	32,152	2,320	94	197,692	6,265	229,312	31,620	154,932	348,698	2,895	19,834	41,265	1,633,886	
Alabama	178	1,092	308	120	173	15	.....	784	.....	788	4	2	1,522	10	343	334	1,799
Arkansas	180	846	334	72	202	.....	.....	512	.....	513	1	49	686	27	601	621	4,257
California	890	7,674	513	100	346	67	.....	6,946	215	6,951	5	98	751	.....	482	3,018	83,586
Colorado	276	2,045	308	115	158	35	.....	1,737	.....	1,862	125	31	4,936	17	52	233	6,248
Connecticut	270	3,425	1,051	724	258	69	.....	2,115	259	2,227	112	3,496	3,119	.....	68	202	8,540
District of Columbia	95	1,703	817	686	131	.....	.....	886	.....	1,215	329	566	2,105	.....	3	7,094	7,094
Florida	120	794	289	22	214	3	.....	551	4	551	.....	231	46	31	31	495	2,421
Georgia	269	2,008	439	78	345	16	.....	1,568	1	1,568	105	2,037	31	140	697	4,574	4,574
Illinois	1,756	26,975	9,219	7,361	1,736	47	75	17,334	422	20,632	3,298	2,317	83,242	209	88	2,741	69,461	69,461
Indiana</td																		

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

PRINTING AND PUBLISHING—Continued.

Table 9—Contd.

STATE.	Number of establish- ments re- porting.	Total horse- power.	PRIMARY HORSEPOWER.						ELECTRIC HORSEPOWER.		FUEL USED.						
			Owned by establishments reporting.					Rented.	Total, rented and generated by establishment.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).	
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.			Anthracite (long tons).	Bituminous (short tons).					
Missouri.....	874	10,472	3,538	2,261	1,253	65	...	6,934	...	8,803	1,869	2,106	28,071	30	1,494	3,442	70,006
Montana.....	94	679	228	54	109	65	...	451	...	451	195	640	...	254	264	1,677	
Nebraska.....	453	2,552	1,044	249	786	9	...	1,403	105	1,428	25	324	6,351	114	10	1,198	5,335
New Hampshire.....	110	1,885	139	42	49	48	...	1,701	.25	1,718	17	623	214	7	201	60	1,237
New Jersey.....	504	5,036	2,750	2,161	535	54	...	2,714	172	3,681	967	8,518	5,624	62	25	276	19,200
New York.....	2,883	53,973	17,413	13,586	3,073	752	2	33,594	2,966	41,571	7,977	75,871	20,814	244	629	1,849	235,216
North Carolina.....	203	1,119	422	146	268	8	...	689	8	689	...	215	1,555	22	1,035	540	2,751
North Dakota.....	220	948	528	4	524	...	...	417	3	417	...	564	1,434	...	59	943	1,768
Ohio.....	1,302	18,417	9,082	5,537	3,473	72	...	9,140	195	11,873	2,733	502	40,242	26	96	1,118	225,115
Oklahoma.....	393	1,664	658	94	564	...	...	1,004	2	1,004	...	35	872	14	244	834	35,112
Oregon.....	227	1,927	178	64	73	41	...	1,749	...	1,749	...	27	409	...	1,502	3,677	4,826
Pennsylvania.....	1,796	25,839	13,522	8,368	4,885	269	...	11,608	709	10,225	4,617	36,151	11,718	17	93	1,026	405,160
Rhode Island.....	110	1,944	1,130	1,080	43	7	...	806	8	1,138	332	406	2,526	288	34	30	5,829
South Carolina.....	116	603	189	35	154	...	...	414	...	418	4	200	499	...	208	329	494
South Dakota.....	240	931	628	5	616	7	...	303	...	304	1	632	1,490	23	318	960	2,241
Tennessee.....	227	2,965	1,494	1,251	215	28	...	1,461	10	2,128	667	21	11,699	375	198	521	6,681
Texas.....	684	4,392	1,480	525	951	...	4	2,902	10	3,203	301	285	3,174	75	647	2,728	8,931
Utah.....	78	1,357	836	800	35	1	...	521	...	684	163	...	3,869	33	39	4,657	
Vermont.....	97	625	173	44	64	65	...	452	...	452	...	577	80	1	207	67	3,012
Virginia.....	252	2,210	518	262	225	31	...	1,692	...	1,692	...	770	3,996	11	380	326	5,774
Washington.....	371	2,232	355	95	161	99	...	1,874	3	1,878	4	123	1,136	10	1,700	309	48,156
West Virginia.....	171	1,560	973	58	851	64	...	578	9	741	163	24	750	27	222	65,349	
Wisconsin.....	634	5,293	1,908	822	1,075	71	...	3,053	272	3,442	389	1,607	7,888	431	3,035	1,042	18,071
All other states.....	305	2,496	432	47	360	25	...	2,064	...	2,065	1	364	1,814	...	648	702	3,271

RUBBER GOODS, NOT ELSEWHERE SPECIFIED.

United States...	202	79,062	74,863	71,635	398	2,455	375	3,499	700	18,848	15,349	59,372	479,906	25	1	1,346	52,173
Connecticut.....	12	6,138	5,848	4,885	12	576	375	290	...	876	586	5,561	24,461	...	4	651	
Indiana.....	10	5,276	4,350	3,750	...	600	...	926	...	1,103	237	28,588	...	120	...	30	
Massachusetts.....	29	10,123	9,708	9,208	...	500	...	415	...	1,241	826	3,655	61,904	...	9	4,187	
New Jersey.....	35	12,906	12,184	11,833	...	351	...	112	610	2,102	1,990	20,120	69,485	25	1	5	46,015
New York.....	37	6,898	5,356	4,910	18	428	...	1,479	63	1,872	393	18,071	10,392	...	...	8	1,200
Ohio.....	34	25,885	25,857	25,496	361	...	...	28	...	10,210	10,182	5,196	221,853	...	...	...	1,200
Pennsylvania.....	12	5,800	5,230	5,230	...	...	...	70	...	927	857	1,617	34,671	...	...	...	60
Rhode Island.....	5	1,075	1,050	1,050	...	...	...	13	12	91	78	5,148	2,245	...	...	...	1,393
All other states.....	23	5,401	5,280	5,278	7	...	...	166	15	366	200	4	26,307	...	...	...	911

SEWING MACHINES, CASES, AND ATTACHMENTS.

United States...	44	19,426	18,484	18,131	62	291	...	897	45	14,063	13,166	51,180	72,041	6,691	336	2,280	36,035
Connecticut.....	6	1,870	1,020	1,605	15	...	...	250	...	1,472	1,222	9,293	2,088	645	...	4,533	
Illinois.....	7	2,366	2,108	2,108	...	...	...	258	...	1,083	825	398	20,979	1,482	110	333	
Indiana.....	3	3,360	3,325	3,325	...	...	...	35	...	1,029	994	55	23,421	497	104	2,219	
Massachusetts.....	6	1,364	1,319	1,020	8	291	...	10	35	1,284	1,175	323	24,776	104	104	180	
New Jersey.....	8	7,242	7,241	7,233	8	...	...	200	...	8,363	8,302	41,106	6,945	3,015	226	2,194	26,446
Ohio.....	4	2,973	2,773	2,766	7	...	...	143	10	1,715	1,515	14,462	553	...	56	567	1,393
All other states.....	15	251	98	74	24	...	...	143	...	1,003	870	328	681	...	...	...	911

SHIPBUILDING, INCLUDING BOAT BUILDING.

United States...	914	88,063	78,769	73,149	3,503	86	2,031	9,264	30	35,334	26,070	12,080	301,501	10,725	12,652	89,916	274,071
California.....	39	3,129	2,995	2,900	95	...	...	134	...	1,098	964	6	1,113	67	150	60,511	15
Delaware.....	8	3,582	2,808	2,798	10	...	...	774	...	3,226	2,452	49	9,912	984	...	1,762	178
Maine.....	88	2,447	1,201	901	285	15	...	1,246	...	1,246	285	317	5,103	104	270	296	
Maryland.....	27	6,795	6,686	6,032	157	497	109	1,284	...	1,284	1,175	323	24,776	466	671	5,557	263
Massachusetts.....	81	3,783	3,471	3,174	297	...	...	282	30	1,285	1,003	870	33,042	164	222	567	567
Michigan.....	58	6,485	6,165	5,976	174	15	...	320	...	1,898	1,578	13	26,933	636	279	2,346	14
New Jersey.....	66	9,904	9,590	9,149	441	...	...	314	...	5,225	4,911	3,526	33,460	1,543	83	380	506
New York.....	164	13,835	9,754	8,921	778	55	...	4,081	...	4,471	390	6,247	30,881	100	272	1,626	3,782
Ohio.....	29	8,125	7,940	7,867	73	...	...	185	...	3,272	3,087	172	28,588	1,513	5	3,607	266,428
Pennsylvania.....	20	7,771	7,621	6,086	35	...	...	150	...	4,210	4,000	50	44,633	976	325	222	924
Rhode Island.....	10	1,030	966	966	30	...	...	34	...	34	8	35,745	3,200	9	16	5,087	1,506
Virginia.....	29	7,533	7,170	7,067	103	...	...	363	...	5,613	5,250	8,682	5,196	...	...	555	...
Washington.....	45	2,105	1,769	1,630	111	19	...	336	...	616	280	...	9,477	245	53	555	242
Wisconsin.....	41	3,506	3,393	3,281	112	113	...	608	...	608	355	204	12,033	1,631	2,188	1	1
All other states.....	211	8,033	7,210	6,392	802	16	...	823	...	1,188	365	287	178	...	...	...	...

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

SILK AND SILK GOODS, INCLUDING THROWSTERS.

Table 9—Contd.

STATE.	Num- ber of estab- lish- ments re- port- ing.	Total horse- power.	PRIMARY HORSEPOWER.						Total, rented and gen- er- ated by the estab- lish- ment report- ing.	ELECTRIC HORSEPOWER.		FUEL USED.					
			Owned by establishments reporting.							Rented.		Generated in the estab- lish- ment report- ing.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).
			Total.	Steam engines.	Gas en- gines.	Water wheels and motors.	Other-	Electric.	Other-	Anthra- cite (long tons).	Bitumi- nous (short tons).						
United States...	844	87,947	81,719	72,059	1,277	8,383	.....	10,354	5,874	23,758	13,404	242,771	155,256	3,601	993	3,072	49,673
Connecticut...	47	8,564	8,050	6,577	.....	1,473	.....	514	.....	2,286	1,772	2,268	39,794	.....	557	135	484
Maryland...	4	915	850	850	.....	.....	.....	65	65	4,539	.....	.....	.....	.....	.....	.....	.....
Massachusetts...	19	5,305	4,012	1,991	20	2,001	.....	1,281	12	1,823	542	13	12,682	.....	180	.....	60
New Jersey...	346	22,376	15,709	14,378	303	1,118	.....	2,381	4,196	5,731	3,350	74,090	16,817	.....	8	273	5,640
New York...	165	11,110	8,549	6,422	639	1,488	.....	1,924	637	3,642	1,718	16,140	20,357	3,601	6	114	36,591
North Carolina...	4	865	865	865	.....	.....	.....	.....	.....	320	320	402	3,441	.....	60	.....	.....
Pennsylvania...	225	41,962	38,066	37,410	154	502	.....	2,980	936	7,616	4,666	148,313	41,740	.....	43	637	5,508
Rhode Island...	13	2,318	1,655	1,205	.....	390	.....	630	33	770	149	134	4,156	.....	.....	.....	.....
Virginia...	7	1,858	1,484	685	.....	799	.....	374	.....	763	389	438	3,476	.....	.....	.....	.....
All other states...	14	2,074	2,389	1,616	161	612	.....	225	60	733	508	973	8,248	.....	159	1,913	1,390

SILVERWARE AND PLATED WARE.

United States...	176	15,183	11,832	10,355	782	695	.....	2,937	414	7,319	4,382	12,225	49,528	612	256	12,402	39,820
Connecticut...	31	5,751	5,245	4,725	55	465	.....	497	9	2,441	1,944	1,464	27,363	116	216	3,759	4,742
Massachusetts...	21	2,113	1,868	1,833	.....	230	.....	178	69	532	356	2,217	6,027	105	28	1,443	1,581
New Jersey...	22	1,211	1,049	950	99	.....	.....	34	128	284	250	1,164	2,016	76	6	688	3,341
New York...	51	2,819	1,398	1,275	123	.....	.....	1,342	79	1,761	419	6,287	3,747	202	1	822	9,580
Rhode Island...	11	1,615	1,335	885	450	.....	.....	156	24	1,159	1,003	665	5,494	112	.....	5,814	14,299
All other states...	40	1,774	937	832	55	.....	.....	732	105	1,142	410	423	4,881	1	5	78	6,277

SLAUGHTERING AND MEAT PACKING.

United States...	1,182	208,707	192,920	190,636	2,208	46	30	15,047	740	78,677	63,630	193,935	2,512,864	976	37,603	1,102,550	1,091,164
California...	67	3,887	2,492	2,441	51	.....	.....	1,375	.....	1,606	231	108	294	32	1,501	153,290	990
Colorado...	12	2,450	2,337	2,337	.....	.....	.....	113	.....	795	682	41,781	40	.....	.....	.....	.....
Illinois...	93	56,651	53,221	53,075	116	30	.....	3,430	.....	26,296	22,866	3,609	957,978	600	4,093	1,929	128,503
Indiana...	49	5,973	5,786	5,648	138	.....	.....	145	42	2,472	2,327	151,800	1,852	3	3,602	812	.....
Iowa...	29	8,309	7,881	7,718	163	.....	.....	428	.....	3,275	2,847	21	167,903	.....	1,198	205	.....
Kansas...	15	24,560	24,420	24,405	15	.....	.....	140	.....	10,768	10,618	203,730	631	517,451	395,895	.....	.....
Maryland...	40	3,024	2,882	2,872	10	.....	.....	124	.....	1,030	888	30	40,765	1,225	14	1,014	1,014
Massachusetts...	66	4,844	3,411	3,350	61	.....	.....	1,399	34	1,554	155	34,007	12,534	103	2,320	13	1,583
Michigan...	37	8,404	2,921	2,895	29	.....	.....	480	.....	911	431	45	19,644	1,283	36	281	.....
Minnesota...	26	4,579	4,058	4,058	.....	.....	.....	521	.....	1,023	502	980	68,005	682	.....	.....	.....
Missouri...	33	11,725	11,639	11,585	54	.....	.....	96	.....	5,004	4,908	2,533	187,072	.....	1,440	8,586	365,289
Nebraska...	11	11,873	11,851	11,821	30	.....	.....	22	.....	3,930	3,908	242,154	7	1,386	126	.....	.....
New Jersey...	63	3,610	3,149	2,999	150	.....	.....	303	153	3,894	591	54,468	2,395	1,031	284	4,606	.....
New York...	170	13,936	11,458	11,168	290	.....	.....	2,328	150	3,865	1,537	71,124	83,556	152	1,328	586	13,473
Ohio...	97	9,873	9,274	8,910	364	.....	.....	599	.....	2,456	1,857	87,452	4	1,424	524	118,502	.....
Pennsylvania...	113	12,139	11,678	11,450	228	.....	.....	461	.....	3,098	2,637	25,795	68,697	3,396	285	35,744	.....
Texas...	12	11,330	11,291	11,291	.....	.....	.....	39	.....	4,177	4,138	21,639	380	388,902	.....	.....	.....
Washington...	12	1,883	728	726	.....	.....	.....	1,157	.....	1,180	3	11,805	50	674	60	836	12
Wisconsin...	36	3,283	3,120	3,043	74	3	.....	163	.....	1,474	1,311	751	45,681	.....	1,424	2,716	.....
All other states...	196	11,384	9,322	8,844	435	13	30	1,706	356	2,899	1,193	464	97,838	85	4,332	25,986	20,098

SMELTING AND REFINING, COPPER.

United States...	37	158,126	128,713	114,862	1,107	12,725	19	29,418	.....	55,229	25,816	310,953	1,081,031	1,008,059	18,496	658,923	3,889
Arizona...	8	29,042	28,342	27,257	1,068	.....	19	700	.....	12,297	11,597	7,459	40,543	463,016	1,494	420,148	.....
California...	8	8,882	3,930	3,930	.....	.....	.....	4,052	.....	4,952	.....	193	70,858	8	191,770	.....	.....
New Jersey...	4	22,320	22,170	22,135	35	.....	.....	4,150	.....	5,284	5,114	223,608	92,829	36,626	25,225	1,173	.....
All other states...	22	97,882	74,271	61,540	6	12,725	.....	23,611	.....	32,716	9,105	79,886	947,466	437,559	14,999	21,780	2,716

SOAP.

United States...	317	28,360	25,038	24,498	245	255	40	1,974	1,348	12,839	10,865	55,528	461,206	1,389	1,665	69,347	57,385
Illinois...	26	5,155	3,199	3,194	5	.....	.....	744	1,212	1,481	737	21	113,638	.....	72	13	3,318
Missouri...	8	954	855	855	.....	.....	.....	99	.....	281	182	28,114	.....	2	.....	300	2
New Jersey...	16	2,761	2,720	2,720	.....	.....	.....	37	4	1,863	1,826	27,240	21,625	81	22,441	83,609	2,049
New York...	49	5,878	5,284	5,277	7	.....	.....	548	41	4,585	4,037	22,441	83,609	80	24	.....	35,887
Ohio...	38	3,579	3,501	3,472	29	.....	.....	78	.....	2,298	2,220	428	115,220	1,145	5	87	3,318
Pennsylvania...	41	2,598	2,549	2,483	86	255	40	424	86	184	90	4,729	24,963	5	87	3	14,353

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

STOVES AND FURNACES, INCLUDING GAS AND OIL STOVES.

Table 9—Contd.

STATE.	Number of establishments reporting.	Total horse-power.	PRIMARY HORSEPOWER.						Total, rented, and generated by establishment.	Generated in the establishment reporting.	FUEL USED.							
			Owned by establishments reporting.								Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).		
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.			Anthracite (long tons).	Bituminous (short tons).						
United States...	483	45,524	36,312	32,993	3,060	259	.....	8,966	246	18,159	9,193	38,407	181,585	102,947	4,762	3,273	265,194
Illinois.....	60	4,983	3,604	3,279	325	.....	.....	1,367	12	1,930	563	506	32,978	9,927	856	154	2,604
Indiana.....	23	1,704	1,095	1,045	50	.....	.....	609	.....	799	190	27	9,245	4,617	206	.....	395
Kentucky.....	8	618	335	383	2	.....	.....	233	.....	233	.....	1,584	2,028	12	2	320	
Massachusetts.....	19	1,804	1,515	1,454	46	15	.....	289	.....	317	28	2,303	5,672	6,542	407	183	1,266
Michigan.....	31	5,910	5,423	5,253	170	.....	.....	412	75	3,239	2,827	98	26,658	12,482	685	499	3,782
Missouri.....	17	2,241	1,860	1,835	21	4	.....	381	.....	1,146	765	47	12,923	3,653	36	.....	7,332
New Jersey.....	6	1,146	1,070	1,045	25	.....	.....	76	.....	681	605	12,200	183	3,100	.....	400	
New York.....	48	6,273	4,681	4,504	172	5	.....	1,567	25	2,985	1,418	11,718	16,098	12,470	771	1,037	10,253
Ohio.....	87	9,478	8,311	6,782	1,529	.....	.....	1,055	112	2,680	1,625	27	41,590	16,730	341	35	216,443
Pennsylvania.....	58	4,675	4,010	3,591	389	30	.....	643	22	1,152	509	8,800	13,315	9,495	309	110	16,833
Tennessee.....	17	1,380	675	665	10	.....	.....	705	.....	705	.....	4,474	5,441	143	48	535	
Wisconsin.....	11	1,631	1,552	1,404	148	.....	.....	79	.....	742	663	607	7,661	5,175	201	908	425
All other states....	98	3,681	2,131	1,753	173	205	.....	1,550	.....	1,550	.....	2,074	9,204	11,284	796	279	4,616

TOBACCO MANUFACTURES.

United States...	637	28,514	22,976	21,929	795	245	7	5,387	171	11,203	5,836	57,259	186,808	1,324	4,054	545	267,586
California.....	4	71	10	10	.....	.....	.....	61	.....	61	.....	7	69	.....	92	123	436
Connecticut.....	7	48	.....	.....	.....	.....	.....	48	.....	48	.....	610	25	1	15	22	452
Florida.....	15	109	55	40	15	.....	.....	54	.....	57	3	11	1	.....	30	29,100	
Illinois.....	35	878	717	704	13	.....	.....	159	2	564	405	3,405	10,417	214	29	22	2,641
Indiana.....	7	123	95	95	.....	.....	.....	28	.....	28	.....	136	2,798	48	60	3	451
Iowa.....	6	55	25	25	.....	.....	.....	30	.....	30	.....	386	2,008	40	47	1	217
Kentucky.....	28	2,713	2,657	2,657	.....	.....	.....	56	.....	627	571	1	11,616	8	17	.....	828
Louisiana.....	6	405	315	315	.....	.....	.....	70	20	126	55	1	4,063	.....	3	.....	1,859
Maryland.....	7	559	318	310	8	.....	.....	241	.....	405	164	468	4,430	83	8	27	3,592
Massachusetts.....	32	251	154	45	4	105	.....	97	.....	101	4	905	474	14	38	11	.....
Michigan.....	23	937	699	660	39	.....	.....	238	.....	614	376	865	9,890	150	617	1	689
Minnesota.....	8	37	7	7	.....	.....	.....	30	.....	30	.....	471	555	25	364	.....	194
Missouri.....	8	2,034	2,005	2,005	.....	.....	.....	29	.....	1,548	1,519	20	37,509	2	65	.....	1,700
Nebraska.....	1	1	.....	.....	.....	.....	.....	1	.....	1	.....	55	521	10	.....	.....	293
New Hampshire...	1	5	.....	.....	.....	.....	.....	5	.....	5	.....	61	1	.....	17	.....	.....
New Jersey.....	26	3,302	2,745	2,617	40	88	.....	557	.....	762	205	20,296	1,529	85	77	.....	8,101
New York.....	133	2,057	1,781	1,700	81	.....	.....	828	48	983	155	11,818	2,754	31	136	55	26,756
North Carolina...	28	3,712	2,748	2,748	.....	.....	.....	964	.....	1,854	890	1,107	32,080	588	.....	.....	220
Ohio.....	51	1,401	899	809	90	.....	.....	488	14	883	395	47	12,152	136	46	5	37,152
Pennsylvania.....	125	2,638	1,873	1,554	317	2	.....	688	77	976	288	14,605	6,356	6	397	112	86,234
South Carolina...	3	48	20	20	.....	.....	.....	28	.....	28	.....	73	52	.....	.....	18	.....
Tennessee.....	18	1,371	1,239	1,239	4	.....	.....	122	10	374	252	11,931	304	83	92	22	507
Virginia.....	36	3,591	3,140	3,136	4	.....	.....	451	.....	970	519	356	28,667	300	909	12	252
Wisconsin.....	14	286	232	200	32	.....	.....	54	.....	54	.....	1,000	1,459	306	34	66,864	.....
All other states....	15	1,282	1,242	1,040	145	50	7	40	.....	75	35	555	5,421	7	306	34	.....

TURPENTINE AND ROSIN.

United States...	1,134	4,129	4,122	3,864	231	14	13	.....	7	.....	.....	.....	515	134,366	521	10,050
Alabama.....	60	324	384	375	4	5	5	13	.....	3	.....	.....	225	16,310	3	.....
Florida.....	508	1,916	1,913	1,787	108	5	5	13	.....	.....	.....	.....	250	59,854	237	50
Georgia.....	495	1,407	1,407	1,333	65	4	.....	.....	.....	3	.....	.....	40	39,255	68	.....
Louisiana.....	18	105	105	105	.....	.....	.....	.....	.....	.....	.....	.....	4,832	.....	.....	.....
Mississippi.....	38	286	286	236	50	.....	.....	.....	4	.....	.....	.....	7,035	200	10,000	.....
All other states....	6	31	27	23	4	475	483	8	37,350	1,045	17	2,313	45,625

WIRE.

United States...	56	71,959	68,923	63,409	3,256	2,151	107	3,031	5	18,824	15,793	84,208	518,121	22,280	818	71,663	217,620
Connecticut.....	8	7,154	7,154	6,585	445	124	.....	.....	5	1,592	1,592	313	22,821	776	2,104	5,414	
Illinois.....	7	12,380	12,380	11,630	.....	750	.....	92	5	2,103	2,103	42,191	52,025	206	697	11,331	2,405
Massachusetts.....	10	10,498	10,401	9,610	68	723	.....	.....	8	4,839	4,747	13,628	113,117	2,614	42,630	.....	.....
New Jersey.....	7	17,436	17,428	16,084	1,344	50	114	107	989	5,591	5,583	18,356	23,880	7,059	50	4,891	.....
New York.....	7	5,455	4,466	4,195	50	.....	.....	1,417	.....	1,719	730	1,737	8,347	8,375	1,990	131,010	.....
Ohio.....	6	10,086	8,689	7,545	1,124	350	.....	50	.....	1,607	190	890	9,720	15,499	773	104	33,266
Pennsylvania.....	8	2,980	2,930	2,355	225	90	.....	475	.....	483	8	37,350	1,045	17	2,313	45,625	.....
All other states....	8	5,970	5,495	5,405	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MANUFACTURES.

POWER AND FUEL USED, FOR SELECTED INDUSTRIES, BY STATES: 1909—Continued.

WIREWORK, INCLUDING WIRE ROPE AND CABLE.

Table 9—Contd.

STATE.	PRIMARY HORSEPOWER.								ELECTRIC HORSEPOWER.		FUEL USED.							
	Number of establishments reporting.	Total horse-power.	Owned by establishments reporting.				Rented.		Total, rented and generated by establishment reporting.	Generated in the establishment reporting.	Coal.		Coke (short tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet).		
			Total.	Steam engines.	Gas engines.	Water wheels and motors.	Other.	Electric.			Anthracite (long tons).	Bituminous (short tons).						
United States...	436	20,131	13,975	10,553	2,492	930	.....	5,642	514	8,891	3,249	7,253	69,842	1,752	927	4,022	64,257
Connecticut.....	23	1,517	1,246	865	85	296	.....	266	5	391	125	752	4,225	.....	295	1,286	1,638
Illinois.....	42	1,655	1,025	548	102	375	.....	606	24	766	160	49	4,801	53	5	262	183
Indiana.....	27	1,182	695	269	426	.....	.....	487	.....	573	86	76	2,092	.....	.....	163	17,807
Massachusetts.....	26	1,468	1,333	1,300	33	85	50	237	152	496	7,185	48	8	872
Michigan.....	34	1,900	843	673	170	.....	.....	907	150	1,208	301	9	4,929	140	.....	160	722
Missouri.....	10	902	877	840	37	13	12	163	150	15	9,631	100	150	169	1,600
New Jersey.....	18	1,066	920	805	115	.....	.....	111	35	198	87	1,578	3,318	362	18	163	1,449
New York.....	65	2,402	1,669	1,376	248	45	.....	559	174	871	312	3,356	9,902	763	30	909	8,995
Ohio.....	48	2,511	2,024	1,555	468	1	.....	440	47	1,724	1,284	4	12,230	250	.....	128	17,125
Pennsylvania.....	49	2,435	1,828	1,384	440	4	.....	595	12	977	382	770	7,003	20	.....	96	10,393
All other states....	94	3,093	1,515	938	388	209	.....	1,573	5	1,783	210	148	4,526	16	431	683	3,475

WOOD, TURNED AND CARVED.

United States...	911	48,447	44,371	37,198	1,829	5,311	33	2,283	1,793	2,966	683	3,890	25,882	45	6,306	1,249	65,316
Illinois.....	40	1,508	1,007	973	34	.....	.....	252	249	262	10	.....	1,768	.....	115	913	
Indiana.....	38	2,754	2,717	2,649	41	28	.....	.....	37	3	3	.....	1,715	.....	62	.....
Kentucky.....	17	1,446	1,025	1,025	.....	.....	.....	286	135	286	.....	2,225	.....	1,176	.....	.....
Maine.....	60	4,525	4,387	3,413	60	914	.....	58	80	123	65	44	256	.....	168	64	.....
Massachusetts.....	61	2,558	2,329	1,578	97	654	.....	54	175	467	413	119	1,426	25	434	52	545
Michigan.....	41	4,695	4,291	4,137	79	75	.....	160	244	181	21	92	2,776	684	128	1,176	.....
New Hampshire.....	29	2,327	2,087	1,193	.....	894	.....	50	190	58	8	.....	115	5	.....	48	43,960
New York.....	134	3,223	2,405	1,831	213	361	.....	406	412	472	66	1,202	703	69	69	.....	.....
Ohio.....	59	4,811	4,660	4,364	296	.....	.....	116	35	155	39	55	4,936	20	7	88	5,638
Pennsylvania.....	82	3,624	3,381	2,781	454	146	.....	159	84	159	159	1,125	2,086	570	570	81	8,125
Tennessee.....	42	2,519	2,519	2,486	15	18	.....	.....	.....	35	35	1,415	.....	280	92	.....	.....
All other states....	308	14,457	13,563	10,769	540	2,221	33	742	152	765	23	1,253	6,461	2,912	519	519	4,969

WOOLEN, WORSTED, AND FELT GOODS, AND WOOL HATS.

United States...	971	362,209	342,691	261,364	2,077	79,250	.....	13,783	5,735	79,223	65,440	277,755	2,365,268	6,985	34,843	26,611	104,746
Connecticut.....	56	17,518	17,310	10,431	50	8,829	.....	158	50	2,157	2,042	1,993	76,533	.....	14,684	131	229
Georgia.....	7	1,437	1,437	1,225	.....	212	.....	.....	.....	426	426	.....	8,536	.....	.....	.....	.....
Indiana.....	11	1,678	1,677	1,507	.....	170	.....	1	.....	61	60	.....	14,427	.....	.....	.....	.....
Kentucky.....	14	2,506	2,481	2,417	.....	64	.....	25	.....	137	112	.....	11,671	200	.....	.....	.....
Maine.....	65	22,299	19,715	7,905	87	11,723	.....	2,578	6	3,799	1,221	3,170	82,605	2,779	825	.....	.....
Massachusetts.....	182	117,119	114,005	89,876	745	23,384	.....	2,497	617	39,945	37,448	43,709	1,390,218	253	1,260	1,636	3,535
Michigan.....	15	1,900	1,815	1,657	50	108	.....	83	.....	272	187	13,127	44	.....	.....	.....	.....
New Hampshire.....	39	30,485	29,023	16,395	5	12,623	.....	1,457	5	4,880	3,423	805	91,829	208	1,886	500	6,366
New Jersey.....	33	20,254	19,883	19,435	10	438	.....	8	363	4,709	4,701	126,841	26,436	.....	1,358	.....	.....
New York.....	60	22,374	20,607	13,306	8	7,293	.....	1,575	192	5,665	4,090	30,972	99,821	153	18	889	.....
Ohio.....	18	6,504	5,686	5,397	150	139	.....	818	.....	2,349	1,531	.....	25,634	6,044	.....	.....	9,212
Pennsylvania.....	215	50,405	43,636	41,320	769	1,547	.....	2,917	3,852	5,711	2,794	53,238	210,160	25	1,448	127	63,302
Rhode Island.....	88	43,715	42,631	37,321	90	5,220	.....	571	513	7,295	6,724	16,367	198,684	1,108	.....	.....	.....
Tennessee.....	21	2,371	2,371	2,282	17	72	.....	.....	.....	412	412	.....	26,591	2,873	10	.....	.....
Vermont.....	17	7,213	7,213	3,885	3	3,325	.....	.....	55	55	.....	35,788	480	2,175	.....	.....	.....
Virginia.....	16	1,352	1,092	388	20	684	.....	260	.....	260	62	3,471	.....	278	.....	.....	.....
West Virginia.....	13	1,327	980	902	20	58	.....	347	.....	387	40	13,126	.....	.....	.....	.....	9,028
Wisconsin.....	33	3,059	3,045	1,647	13	1,385	.....	14	.....	19	5	16	13,838	452	56	.....	.....
All other states....	68	8,693	8,084	4,068	40	3,976	.....	472	137	684	169	82	28,773	6,970	20,458	12,185	.....

CHAPTER XIV.

CONSUMPTION OF FUEL IN MANUFACTURING INDUSTRIES.

Methods of consumption of fuel.—Fuel is used in manufacturing in three different ways. First, and most important, it is employed for generating power by means of steam engines or internal-combustion engines; second, it is used to produce heat which is applied directly to materials to transform them or to facilitate their manipulation; and third, it is itself used as a material and enters into the actual composition of the product.

The only important industries using fuel in the manner last described are the charcoal industry, where by a process of slow partial combustion wood is transformed into charcoal; the coke industry, where coal is transformed into coke by the combustion or distillation of the lighter hydrocarbons; and the gas industry, in which coal and oil form important constituent materials. Besides these, there are the manufactured fuel industry, and the manufacture of bone, carbon, and lamp black, both of which are minor industries.

There are about 35 industries in which, by the combustion of coal or some other form of fuel, heat is applied directly to material in the process of manufacture. Among these the most important are the brick and tile, foundry and machine-shop, glass, and blast-furnace industries, the steel works and rolling mills, the various metal smelting industries, the lime and cement industries, petroleum refining, and the salt industry.

Quantity of different kinds of fuel consumed in all manufacturing industries combined.—The census inquiry in regard to fuel was designed to ascertain the quantity used in manufacturing processes or for the development of power. Establishments using fuel for lighting or heating purposes only were not asked to report the amount used. On the other hand, when fuel was so used and also used for the development of power or in the processes of manufacture, no attempt was made to separate the quantities used for the different purposes, but the total consumption was reported.

The table following shows the quantity of the principal kinds of fuel reported for 1909 by all manufacturing establishments:

Table I	KIND.	Quantity.
Anthracite coal, long tons.....		14,339,220
Bituminous coal, short tons.....		1,162,632,338
Coke, short tons.....		37,959,970
Wood, cords.....		5,481,311
Oil, including gasoline, etc., barrels.....		34,331,632
Gas (excluding blast-furnace gas), 1,000 feet.....		451,302,493

¹ Includes 53,788,398 tons used in making coke at coke ovens, besides coal used in gas works.

The figures given for bituminous coal cover all that was consumed in the manufacture of coke. Under "coke" are reported both oven and gas-house coke. The greater part of the oil used as fuel was crude petroleum. There were, however, large quantities of the products of petroleum refining—gasoline, naphtha, gas oil, fuel oil, and illuminating oil—reported under this heading. Natural gas formed by far the larger proportion of the total quantity of gas reported. A good many concerns use coal for power or other purposes by converting it into "producer" gas. In general, in such cases the quantity of coal consumed, rather than that of gas made and consumed, was reported. The blast-furnace gas used as fuel is not included in the table (see discussion of figures for blast-furnace industry following Table 3).

The census schedule for manufactures called specifically for the six kinds of fuel named in the above table. It also called for "other" fuel, but the results obtained proved untrustworthy, and it was decided not to publish the statistics. The figures returned were especially defective in certain industries. Spent tanbark is utilized for fuel in many tanneries, and by some it was so reported; the larger proportion of the establishments, however, kept no account of it, and were unable to make any estimate of the amount used. Again, in lumber mills and other woodworking establishments sawdust and other mill refuse are used as fuel to a large extent, but accurate figures as to quantities could seldom be secured. Charcoal is of some importance as a fuel in manufacturing. In the blast-furnace industry, the leading consumer of charcoal, 380,326 tons were used in 1909. A large part of the charcoal manufactured is made in wood distillation plants. Their product, in 1909, amounted to 55,478,503 bushels, which is equivalent to 610,264 tons, assuming the average weight of a bushel to be 22 pounds. According to the returns, it was valued at \$3,509,019, the average value per ton being \$5.75. The quantity of charcoal produced by the ordinary pit or mound method was not reported, but its value was reported as \$872,522, which would represent about 150,000 tons, if the value per ton of this charcoal was the same as that of charcoal produced in wood distillation plants. The total quantity of charcoal produced in the United States in 1909, therefore, may be estimated as about 760,000 tons, and much the larger part of this was doubtless used in manufacturing industries.

There is a considerable element of duplication involved in the statistics of fuel used in manufacturing industries. Bituminous coal used to manufacture coke is not destroyed as a fuel in the process, but, on the

contrary, the fuel efficiency of the coke is greater for some purposes than that of the coal from which it was made. There were 58,788,398 tons of bituminous coal used in 1909 for making coke (other than gas-house coke); deducting this amount from the total shown in Table 1 as used in manufacturing leaves 103,843,940 tons, which quantity represents approximately the amount of bituminous coal used to produce heat or power for manufacturing purposes, although some small part of this quantity was converted into illuminating gas and gas-house coke, some of which in turn was used as fuel in manufacturing industries. Likewise, of the wood reported in Table 1, 190,600 cords were used in the charcoal industry, while most of the product of that industry was in turn used in manufacturing establishments.

It is impossible to determine with any approach to accuracy the relative importance of these several kinds of fuel used in manufacturing industries. There is no general standard by which a given quantity of one fuel can be reduced to an equivalent of another; for example, a barrel of oil to a quantity of bituminous coal equal in thermal efficiency. Of course, fuels are frequently tested by laboratory analysis as to their thermal efficiency, and conversion factors are ascertained, but such tests relate only to particular grades and varieties of the fuels compared, and the results are of little value as indicating the relative efficiency of the different classes of fuels in the aggregate. Again, one fuel may be peculiarly adapted to the mechanical appliances and processes employed in a particular industry and therefore be of much greater relative efficiency in that industry than in most others.

Relation of fuel consumption in manufacturing industries to total production.—The manufacturing industries of the United States consume a large proportion of the total output of fuel. This is indicated by Table 2, which shows the total production in 1909 of the different kinds of fuel for which figures are given in Table 1, with the exception of wood, the quantity used in manufacturing, and the percentage that it formed of the total quantity produced. Wood is omitted from the table, for the reason that there are no satisfactory statistics as to the total amount of wood used as fuel. While the production of coke is a manufacturing industry, according to census usage, it would obviously overstate the importance of manufacturing industries as consumers of fuel to credit them with consuming both the coal and the coke derived from the coal; consequently the coal used in the coke industry, 58,788,398 tons, has been deducted both from the coal production and from the coal consumption of manufacturing industries.

Of the total production of anthracite coal in 1909, only 19.8 per cent was consumed in manufacturing industries. The demand for this fuel is chiefly for domestic purposes, as its cost usually makes its use in manufacturing establishments uneconomical. Although there are no statistics available from previous censuses to indicate the extent of the use of anthracite coal in manufacturing operations, it seems

very probable that the quantity so consumed is constantly decreasing. The blast-furnace industry affords an example of the decreasing use of anthracite coal in metallurgical operations. The number of long tons consumed, as reported for 1879, was 2,334,984; for 1889, 1,796,854; for 1899, 886,564; for 1904, 560,637; and for 1909, 273,543.

According to Table 2 the quantity of bituminous coal used in manufacturing was 32.6 per cent of the production, after excluding the coal used in the coke industry. Railroads, navigation companies, electric power plants, and other concerns not engaged in manufacturing use large quantities of bituminous coal and the household consumption is also large.

Oven coke is made chiefly for use in metallurgical processes in blast furnaces, copper, lead, and zinc smelters, etc., and this explains the very large proportion of the coke, 92.7 per cent in 1909, which is used for manufacturing. The production shown includes coke made as a by-product in illuminating gas works, which is used for domestic purposes to a considerable extent, and the coke which was not used in manufacturing industries (3,004,958 tons) was largely of this class.

Combining the tonnage of coal and coke, it appears that of the total production, amounting to 440,010,170 short tons, 157,863,836 tons, or 35.9 per cent, were used in manufacturing.

A large portion of the manufactured gas is used in the household and for lighting streets, and a considerable quantity of the crude oil produced and of the products derived from it are used for purposes other than for fuel.

KIND.	Produced.	USED IN MANUFACTURING.	
		Quantity.	Per cent of production.
Anthracite coal, long tons.....	72,292,973	14,339,220	19.8
Bituminous coal, excluding coal converted into coke in coke industry, short tons.....	318,077,112	103,843,940	32.6
Coke, short tons.....	140,964,928	37,959,970	92.7
Manufactured gas, 1,000 feet.....	150,835,793	451,302,493	77.6
Natural gas, 1,000 feet.....	430,956,466		
Oil, barrels.....	171,557,485	34,331,632	20.0

¹ Includes gas-house coke.

Fuel consumed in individual industries.—Statistics as to the amount of the different kinds of fuel consumed in 1909 are shown in General Table II for each of the 259 industries for which separate statistics can be given. Table 9, Chapter XIII, gives for each of the 86 leading industries, in addition to the statistics relating to power, statistics as to the fuel consumed in the industry for each state in which it gave employment to an average of 500 wage earners, so far as this can be done without disclosing individual operations. The following table shows, for 1909, the total cost of fuel, including rent of power, and the quantities of the different kinds of fuel reported by each of the 50 industries, showing the largest expenditures for fuel and rent of power.

CONSUMPTION OF FUEL.

373

CONSUMPTION OF FUEL IN 50 LEADING FUEL-CONSUMING INDUSTRIES: 1909.

Table 3

INDUSTRY.

	Cost of fuel and rent of power.	Anthracite coal (long tons).	Bituminous coal (short tons).	Coke (short tons).	Wood (cords).	Oil, includ- ing gasoline (barrels).	Gas ¹ (1,000 ft.).
All industries.....	\$570,067,824	14,339,220	162,632,338	37,959,970	5,481,311	34,331,632	451,302,493
Agricultural implements.....	2,042,974	15,114	550,085	98,819	14,528	244,759	313,412
Automobiles, including bodies and parts.....	1,061,724	17,346	319,497	14,282	2,183	80,873	385,468
Beet sugar.....	1,899,468	8,981	565,672	28,300	3,602	554,174	383
Boots and shoes, including cut stock and findings.....	1,847,885	45,089	285,545	2,124	4,313	4,324	128,314
Brass and bronze products.....	3,005,514	206,396	589,309	59,152	49,473	206,882	248,798
Bread and other bakery products.....	7,375,847	383,390	250,165	195,971	310,933	151,371	2,732,811
Brick and tile.....	17,788,091	236,336	5,773,232	40,785	1,069,973	1,040,406	16,003,049
Butter, cheese, and condensed milk.....	2,771,983	47,344	588,169	1,069	182,587	94,325	215,218
Canning and preserving.....	1,551,303	37,613	287,294	2,156	62,278	165,042	130,434
Carriages and wagons and materials.....	1,771,984	52,258	451,304	18,741	13,503	44,176	477,367
Cars and general shop construction and repairs by steam-railroad companies.....	8,465,983	438,340	5,255,477	54,827	66,872	982,329	1,116,127
Cars, steam-railroad, not including operations of railroad companies.....	2,097,059	38,865	604,038	113,013	6,223	140,725	552,803
Cement.....	13,153,180	259,220	4,815,758	4,103	5,540	1,515,697	14,721,568
Chemicals.....	8,046,840	650,480	2,101,768	63,520	3,644	110,276	1,300,265
Clothing, men's, including shirts.....	2,240,019	55,770	89,342	1,013	1,344	8,904	828,622
Clothing, women's.....	1,076,832	21,405	14,897	76	203	1,295	377,872
Coke.....	60,905,891	59,000,005	24,632	84	21	5,615,712	5,615,712
Copper, tin, and sheet-iron products.....	2,252,642	51,448	334,754	14,917	4,027	35,096	1,337,837
Cotton goods, including cotton small wares.....	13,985,890	413,004	3,327,802	20,605	130,573	38,792	278,256
Dyeing and finishing textiles.....	4,451,077	593,093	869,216	2,576	746	10,037	64,657
Electrical machinery, apparatus, and supplies.....	3,056,066	87,096	632,870	20,123	2,013	104,467	1,761,949
Flour-mill and gristmill products.....	6,980,675	67,459	1,880,702	3,347	202,748	424,386	3,037,008
Foundry and machine-shop products.....	23,750,838	624,958	4,220,640	1,919,916	119,626	677,828	12,837,341
Furniture and refrigerators.....	2,571,562	54,427	728,841	17,009	38,304	7,540	181,463
Gas, illuminating and heating.....	39,190,031	898,984	4,068,096	759,245	3,723	11,816,282	666,408
Glass.....	7,523,937	17,906	1,859,001	17,393	12,488	468,894	43,711,519
Hosiery and knit goods.....	1,970,277	124,420	441,157	1,080	6,845	2,152	33,861
Ice, manufactured.....	7,780,397	244,396	2,430,454	6,872	183,984	905,952	4,348,929
Iron and steel, blast furnaces.....	108,536,921	273,543	1,166,135	31,849,865	179,012	19,446	949,622
Iron and steel, steel works and rolling mills.....	46,136,725	765,145	19,759,678	648,637	55,809	2,063,736	261,601,204
Leather, tanned, curried, and finished.....	3,292,831	98,724	1,028,215	806	20,143	46,129	598,532
Lime.....	3,439,960	106,929	674,304	71,471	517,915	33,147	1,424,724
Liquors, malt.....	8,570,892	554,029	2,424,708	11,530	69,637	527,089	3,649,380
Lumber and timber products.....	5,082,287	79,330	1,134,218	5,854	162,644	144,499	521,034
Marble and stone work.....	2,546,081	49,962	632,447	1,149	8,313	20,238	133,436
Oil, cottonseed, and cake.....	3,144,795	8,583	828,357	800	156,447	376,789	372,880
Paper and wood pulp.....	18,320,266	555,677	5,460,314	500	226,001	584,536	6,485,293
Petroleum, refining.....	8,376,383	1,347,519	1,264,841	99,695	-----	3,473,758	7,519,839
Pottery, terra-cotta, and fire-clay products.....	7,560,532	98,348	3,026,546	4,562	38,743	370,334	10,366,943
Printing and publishing.....	7,601,152	154,932	345,098	2,895	19,834	41,265	1,633,886
Salt.....	1,590,746	108,816	642,373	15	9,441	85,074	1,688,731
Silk and silk goods, including throwsters.....	1,637,981	242,771	155,256	3,601	993	3,072	49,673
Slaughtering and meat packing.....	6,700,834	193,935	2,512,864	976	37,603	1,102,550	1,061,164
Smelting and refining, copper.....	13,320,517	310,953	1,081,031	1,008,059	10,496	658,923	3,889
Smelting and refining, lead.....	3,408,126	31,958	427,479	351,963	560	99,157	47,393
Smelting and refining, zinc.....	2,218,876	432,161	634,932	52,172	405	41,595	11,676,995
Sugar, refining, not including beet sugar.....	2,866,371	511,640	542,148	302	85	578,633	453
Wire.....	1,640,172	84,208	518,121	22,280	818	71,663	217,620
Wood distillation, not including turpentine and rosin.....	3,169,377	48,518	225,471	35	850,064	8	2,288,372
Woolen, worsted, and felt goods, and wool hats.....	6,480,196	277,755	2,365,268	6,985	34,843	26,611	104,746
All other industries.....	52,804,142	2,307,007	12,043,124	500,187	564,147	4,070,375	24,730,993

¹ Not including blast-furnace gas.

For some industries, such as the lumber and leather industries, in which large quantities of mill refuse and waste products are consumed as fuel, the figures do not represent the total quantity of fuel consumed.

The blast-furnace industry led all others in the cost of fuel used. Vast quantities of coke are used, the consumption in 1909 being 31,649,865 tons, or 83.4 per cent of the total quantity used in all industries. In the consumption of the other kinds of fuel this industry holds a subordinate place. Practically all of the coke, as well as much of the coal, used in this industry is consumed in the stacks for smelting the ore. The statistics for gas used in this industry, as shown in Table 3, do not include blast-furnace gas. The utilization of this gas for power generation is an exceptional practice, only a few establishments having reported it, but these used no less than 654,520,000,000 feet, of which

480,415,000,000 feet, with an estimated value of \$2,174,000, were utilized in the furnace plants, while the remaining 174,105,000,000 feet were used in the rolling mills operated in connection with the blast furnaces. The quantity and value of this gas are omitted from the table, because it was produced and consumed within the industry and was not a primary fuel. Blast-furnace gas has only about one-tenth as much heat value per unit as natural gas.

The coke industry was second in importance in the amount expended for fuel. The principal material of the industry is bituminous coal, of which 59,030,005 tons were used in 1909, or 36.3 per cent of the total for all industries. Most of this, of course, is simply transformed into coke, as the quantity of fuel required for the generation of power in the manufacture of coke is comparatively small.

MANUFACTURES.

The steel works and rolling mills ranked third in fuel consumption in 1909, as measured by the amount expended for this purpose. Much fuel is required in this industry for smelting and heating the materials, but large quantities are also used to generate the power for operating the heavy machinery required in all branches of the industry.

The brick and tile and the foundry and machine-shop industries are also very large consumers of fuel. The brick and tile industry used 6,050,353 tons of anthracite coal, bituminous coal, and coke combined in 1909, and the foundry and machine-shop industry 6,765,514 tons, while the former consumed much more wood, oil, and gas than the latter.

Other important industries in the use of fuel are the paper and wood-pulp industry, the manufacture of cotton goods, including cotton small wares, the smelting and refining of copper, and the manufacture of cement.

Establishments in industries in which the fuel cost is an important factor show a tendency to locate near the sources of fuel supply, and in such cases a given expenditure for fuel often represents a much larger quantity than in an industry in which the location of establishments is governed by other considerations. The following statement, which relates to the manufacture of pottery, terra-cotta, and fire-clay products, and to the bakery industry, respectively, is introduced to illustrate this fact:

Table 4

	Pottery, terra-cotta, and fire-clay products.	Bread and other bakery products.
Cost of fuel and rent of power.....	\$7,560,532	\$7,375,847
Rented power, horsepower.....	3,554	31,289
Fuel used:		
Anthracite coal, long tons.....	98,348	383,390
Bituminous coal, short tons.....	3,026,546	250,165
Coke, short tons.....	4,562	195,971
Wood, cords.....	38,743	310,933
Oil, barrels.....	370,334	151,371
Gas, 1,000 feet.....	10,365,943	2,732,911

These two industries have widely different characteristics in respect to the use of fuel. The absolute cost of fuel, including rent of power, was nearly equal in 1909 in the two industries, but in the manufacture of pottery, terra-cotta, and fire-clay products it formed 11.5 per cent of the total expenditures, and in the bakery industry only 2.2 per cent. The Ohio pottery district, which leads all others in the value of output, is in the immediate vicinity of a plentiful supply of coal, gas, and oil, and is thus enabled to obtain its fuel at a minimum cost; and this to a large extent is true of the industry generally. Bakeries, on the other hand, are scattered over the entire country, but are numerous and important in large cities. Fuel is purchased in comparatively small lots and, by reason of freight and delivery charges, frequently at a high cost.

The amount of coal and coke combined and of gas consumed in the manufacture of pottery, terra-cotta, and fire-clay products was more than three times as great as the amount consumed in the bakery indus-

try, and the amount of oil more than twice as great, and although the latter industry reported a larger amount of wood and of rented power than the former, the difference was insufficient to offset to any significant extent the differences shown for the three kinds of fuel first mentioned.

Fuel consumed, by states.—General Table IV shows the quantity of fuel consumed in all manufacturing industries combined in each state and division. The following table shows, by percentages, the distribution of the total consumption of each kind of fuel among the geographic divisions:

DIVISION AND STATE.	PER CENT OF TOTAL AMOUNT CONSUMED IN MANUFACTURING INDUSTRIES IN THE UNITED STATES: 1909					
	Anthra-cite coal (long tons).	Bitu-minous coal (short tons).	Coke (short tons).	Wood (cords).	Oil, in-cluding gasoline (bbis.).	Gas ¹ (1,000 ft.).
United States.....	100.0	100.0	100.0	100.0	100.0	100.0
New England.....	10.9	6.2	0.9	10.7	4.5	0.3
Middle Atlantic.....	83.3	42.4	46.0	14.6	21.0	54.4
East North Central.....	2.8	24.5	32.6	24.8	13.5	20.1
West North Central.....	0.8	4.9	1.0	7.4	8.2	3.6
South Atlantic.....	1.3	0.7	4.2	18.0	2.1	7.2
East South Central.....	0.3	6.1	10.4	7.6	0.7	0.5
West South Central.....	0.3	1.9	0.3	7.7	18.1	2.7
Mountain.....	0.1	4.0	4.2	1.7	2.3	0.1
Pacific.....	0.1	0.3	0.4	7.5	29.6	0.1

¹ Not including blast-furnace gas.

More coke, gas, and coal of both varieties were consumed in the Middle Atlantic division than in any other, but the East North Central division led in the quantity of wood used as fuel and the Pacific division in the quantity of oil. The rank of a state or geographic division in the value of manufactured products does not necessarily determine its position as a consumer of fuel; that position depends also on the character of the predominating industries. Nor does the amount expended for fuel furnish an accurate standard of comparison as to quantity of fuel used, since a given expenditure may represent a much larger quantity of fuel in one state than in another. The following statement for Kentucky and New Hampshire illustrates this condition. Kentucky is selected for the comparison because of its natural advantage in respect to fuel, while New Hampshire, on the other hand, is very disadvantageously situated, practically all of its primary fuel, except wood, being brought from a great distance. It is evident that for a given expenditure a larger fuel value can be obtained in Kentucky than in New Hampshire, since the difference in the amount of payments for rented power included in the total expenditures shown is by no means sufficient to offset the differences in the quantity of fuel used.

	Kentucky.	New Hampshire.
Cost of fuel and rent of power.....	\$3,589,757	\$3,191,981
Rented power, horsepower.....	11,617	25,684
Fuel used:		
Anthracite coal, long tons.....	2,207	23,768
Bituminous coal, short tons.....	1,464,731	605,450
Coke, short tons.....	193,238	16,532
Wood, cords.....	45,157	124,867
Oil, barrels.....	156,448	40,199
Gas, 1,000 feet.....	2,203,914	32,392